

1857-7
PLOUGH, LOOM AND ANVIL;

OR

American Farmers' Magazine;

DEVOTED TO

Agriculture and Kindred Arts;

EMBRACING

I. Agriculture, in its Varied Departments; The Improvement and Cultivation of Soils; Field-Culture, Pasturage, and Wood-Lands; Gardening, Fruit-Growing, Shade-Trees, Buildings, and General Arrangements for Rural Economy and Comfort; Crop-Growing, Expenditure of Farm Products, Rearing of Animals, and whatever is of Special Interest to the Farmer.

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All controversial matters not essentially connected with the foregoing subjects, to be carefully omitted.

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The Plough, the Loom, and the Anvil; AN AMERICAN FARMERS' MAGAZINE AND MECHANICS' GUIDE.

PROSPECTUS AND BUSINESS DIRECTORY FOR VOLUME X., COMMENCING JULY, 1857.

For the purpose of bringing the future Volumes into accordance with the year, the 10th Volume will comprise but six months, ending with January, 1858. It will be complete in itself, with Title-page and Index; will contain 400 pages, half the usual number, and will be sold at \$1 to single subscribers, and 75 cents each to Clubs.

AGRICULTURE AND HORTICULTURE.

Thirty-two pages of each number will be devoted to an earnest advocacy of the Farmer's rights, to a faithful exposition of his duties in all practical matters of farm-life, and to so much of Horticulture as may prove useful to families with whom gardening and fruit-growing, if not a primary, are yet important interests.

MANUFACTURES AND THE MECHANIC ARTS.

About sixteen pages will be devoted to these, the topics selected to be of a character to interest the Farmer as well as the Mechanic, and to give the work a high value for both.

MISCELLANEOUS.

Science, as related to the Industrial Employments, Domestic Economy, Amusement, Literature, and General Intelligence will occupy the remaining pages.

OUR OBJECT IS,

To condense into our pages as much of practical value as we are able, to avoid whatever is sectional or immoral, and to make our work a pleasing and instructive family visitor.

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Drafts are preferred; but when these can not be conveniently obtained, money (in registered letters, if over \$2) may be forwarded at our risk.

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The Plough, the Loom, and the Anvil.

VOL. IX.

JUNE, 1857.

No. 12.

Agricultural.

LABOR-SAVING IMPLEMENTS.

BETWEEN the farmer and the mechanic, there need be no controversy. It is for the interest of the mechanic, that farm produce should command a remunerating price; and it is as clearly for the interest of the farmer, that mechanical skill and industry should be fairly compensated. In a well governed country, these two classes, while working out the material prosperity of all, must necessarily be customers to each other; and each, if a liberal view of things be taken, must, it would seem, rejoice in the other's prosperity. When farmers and mechanics are justly distributed over a country, the former producing the raw material, and the latter manufacturing it into all the necessities and luxuries of life, and the two freely exchanging products, it would hardly seem possible that either should envy the other, or begrudge the patronage necessarily extended to his fellow-laborer.

But the middle men come in between; and the farther the farmer and the mechanic are from each other, the more of them get between; and the more there are between, in the character of merchants, carriers, speculators, agents, solicitors, "*et id genus omne*;" the more the farmer fails to get from the mechanic, all that he, as a consumer, pays for farm produce, and the more the mechanic fails to get for the result of his labor, all that the farmer pays for it; till by-and-by it happens that if either gets for any article produced by skill and labor, about half of what the other pays, he thinks it is doing pretty well. For instance, the farmer gets one dollar for a bushel of wheat, and the mechanic pays two for it, or the mechanic gets three dollars for an implement, for which the farmer pays six. So the world goes; and if this is the best state of things that is possible, it is not a very good state of things after all; and we think we should not be blamed for grumbling a little, even if grumbling will do no good.

One evil that grows out of this state of things is that farmers become, we will not say *excessively*, but at least, *injuriously*, cautious—afraid, and we confess that they have reason to be afraid, that some-

body will cheat them. A new tool is wanted. The cost of manufacturing it would be 68 cents. But there is a patented improvement on it. The patentee must be well paid, and that is right; the manufacturer must have a good profit, and that is right, too; the carrier must be paid, and that is all right; the country merchant must have a profit, and nobody would find fault with that; but when the patent hoe, curry-comb, or corn-husker, gets into the farmer's hand, it has become quite an expensive article. If it happens to be one of those useless inventions that are to be sold quick or never,—before it is found out,—or an infringement upon some other patent, then, instead of going the regular rounds of trade, it is put into the hands of some voluble creature, more tonguey than truthful, and worked off at double quick time. A specimen of this genus must be sent into every district; and, strange to say, their services command a great price. Even they will not sell their services, conscience and all—without a good price. Half of what the purchaser pays would not satisfy them. Two-thirds or three-fourths would secure more enlistments into the important service of forcing a doubtful article upon the public *quick*.

It is so with portable manures, with implements, with seeds. And what shall the farmer do? He has a strong provocation to brace himself against all innovation. But this would not be wise; for although much is lost by jumping at articles which do not prove to be what they were represented, yet three times more is lost by not adopting real improvements as soon as they are offered. What then shall the farmer do, since there is danger from being too credulous, and still more from being incredulous of new things? He admits that there *are* great improvements. He may safely make up his mind that there *will be* other improvements. So much mind as is brought to bear upon this subject, so many publications as are distributed, so much inquiry as is aroused, will not be barren of results. The world *is* not standing still. It *will not* stand still. The farmer's success will depend hereafter more than at any former period, upon keeping up with the age. Let him keep himself informed—too well *read up* to be taken in by sharpers, too *progressive* to be thrown back upon old methods, when better are demonstrated.

Agricultural journals are certainly doing much to inform the farmer what implements are worthy of his attention, and to warn him against frauds. If it be said that the editors are always under a temptation to join in the conspiracy, that they can not be trusted, we admit the first, but deny the second. That there are enough who would bribe them if they could, we have no doubt, but without claiming that editors are the most incorruptible of mortals, we may assert, that in the present attitude of affairs in our country, their interest

absolutely requires them to be true to the farmer. We have spoken in the preceding pages of persons who will sell their conscience for a high price. In the matter of which we are speaking, we will not sell ours at any price. We would not, if we recognized no higher account, than we owe to the farmers of this country. Not to be true to the farmers, in our position, would be wretched morality, but it would be worse policy.

We have not cried humbug, at venders of manures, implements, seeds, &c., as loudly as some others. We are peaceably disposed. We feel that it is more agreeable *to build up* than *to pull down*. We will make war upon no man or set of men, for the sake of war. But we assure our readers, that we are not inactive. We are seeking information, as our residence in this commercial metropolis enables us, and as evidence of attempted frauds upon the farmer come to our knowledge, we will expose them. In the meantime we ask our agricultural readers to let us hear from them. Give us a note of whatever in your region would be of general interest and value; and if you accompany your notes with questions about fertilizers, implements, any thing in which you conceive yourselves liable to be defrauded, and on which you suppose that our position enables us to throw light, we will answer them in the pages of this Journal, to the best of our knowledge, and as best we can gather information for the purpose, assured that if it brings us into a quarrel with any who wish to sell what you ought not to buy, or at prices which you ought not to pay, you will stand by us, and believing also, as we turn our eye to the right and left, that our own shoulders are somewhat broad.—ED.

ROOTS.

HAVE you arranged for the cultivation of a good patch of carrots? If not, you are too late for this year; but do not fail to be in time for the next. The farmer's policy is to be looking ahead. Much is lost by not having far-reaching plans well *thought out*, beforehand. Considerable can be saved in labor, and more in augmented crops by working on a well devised and comprehensive plan. Every field and patch should be worked and manured, with some reference to the future. A speedy return, we grant, is the main thing; but it is not the only thing; the cultivation, the manuring, the fencing of a field—all that you do to it, must have a bearing on the crops for the next year, and the succeeding years; and the more a farmer can carry along the two objects—one of securing a profitable crop this year, and the other of paving the way to more profitable next, and on—the more successful he will be. But we must come back to the roots.

Are your arrangements made for 500, or from that to 5000 bushels of turnips? It is not yet too late for these. Have you land to appropriate to them? Have you reserved manure? You should set apart a patch, at least, for this purpose, and it would be better to purchase manure, than not to have a plot of turnips, yielding at the rate of eight, ten, twelve or fifteen hundred bushels to the acre. Not that we are great advocates for the root crops. In the damp regions of Northern Europe, they are the farmer's sheet-anchor. We have seen that there he can do nothing without them. It is different here. We can grow profitable successions of crops, without introducing roots as one of the series. Farmers in the north of Europe can not. They must have roots, as a hoe crop, in order to make out a profitable rotation. Corn, *Corn*, INDIAN CORN, is the greatest crop in the world; and our country is the best in world for it. If our English brethren could grow corn as we can, they would think less of turnips. If we grow as much corn as we ought, we shall have little need of turnips. We wish to take a candid view of this subject. We would drag in no outlandish rules of agriculture, which do not apply to our country; for much as we have admired the thrift, economy and adaptation to soil and climate, of English farming, we are prepared to view every thing in its relations to our own climate and our own wants, and to commend nothing on mere foreign authority. It by no means follows that because turnips are all important to the English farmer, they are equally important to the American. We do not believe they are.

One bushel of corn-meal will lay more fat upon our beasts, and produce more growth, than half a dozen bushels of turnips. With us, turnips are not essential to a judicious rotation, and as food for animals they are not a necessity. This we readily admit. Nevertheless, we think that something should be ascribed to the turnip as a means of preparing the soil for other crops; that as a succulent, to be given with the dry food, on which our cattle are fed too exclusively, the turnip possesses considerable value; and that it would be a *mighty* convenient thing for a farmer to have a few thousand bushels of roots to commence our long winters with. Nothing so enlarges the manure heap as the root crops. If you have to buy manure for the first crop, you may rely upon them as a powerful auxiliary to the home fertilizers in the sequel. Distributed in just proportions with dry food, their tendency is to keep cattle in fine health, thrifty and growing. And then what a saving of second-rate fodder.

No farmer can have fine, sweet, June-cut, well-cured hay enough for all his stock. It is an impossibility; and besides, it never can be profitable to winter stock on such hay alone. Have you considered that half a bushel of roots, with a supply of corn-stocks, straw and

coarse hay, will keep store cattle in about as thriving order, as the best hay alone? The effect of the roots is to keep them healthy, to make them hardy, to enable them to devour much that would otherwise be trodden under foot and lost. Our belief is that all the dry forage—corn stover, marsh hay, straw, etc., etc.—should be cut and consumed by growing stock, and that it may be thus turned into manure, with a clear profit, provided that corn-meal or roots, or, what would perhaps be better, both, were so intermixed as to make the food, as a whole, of a fair quality, such as will keep stock in a steadily thriving condition, notwithstanding that some of it is too poor in itself for the sustenance of cattle in a thrifty condition.

With these views, but without the least expectation that turnips and other roots are ever to assume the same importance here as in Europe, we advise farmers to try them. See how many you can raise to the acre; note the expense of growing them; watch the effect on your cattle; see whether they help you to dispose of your coarse feed more advantageously; and last, but not unimportant, note the effect on the manure heap; and you will be the best judge in the world, as to whether or not they are, in view of all their bearings, a profitable crop for you.—ED.

DEEP AND THOROUGH CULTIVATION.

A WRITER in the *Iowa Farmer*, by the name of Fast—and he is *fast* in the way of deep ploughing, but not too fast—says, we ought to raise a great deal more corn to the acre, and recommends the following as a remedy, in part, for small crops:

“In the first place, make as large a draft as possible on the Farmer’s Bank, (the manure pile,) and when the plough is started, which should be a No. one article and no other, set it about one third or half deeper than usually is done on old land, say ten or twelve inches, and with about two thirds the width generally taken; then, if you have a good team, it is not very hard work to do your ploughing first rate, and if you have any taste for seeing work done just right, you will not return to the cut and cover mode of ploughing again. Harrow well; mark out in straight rows both ways, then if you have good seed, as by all means you should have, laid carefully away since last fall, so as to prevent the cob from freezing before it dries out, plant carefully, (with a good planter if you have one); when through, take your team and go on it with a good heavy roller; roll smooth, and by giving it a reasonable amount of work with the plough or cultivator in tending the crop, you may almost bid defiance to drouth or rain.”

This writer should remember that four or five inches is about the average depth of what has hitherto been called deep ploughing among us. Even in England, and on the continent of Europe the

ploughing is a little hypocritical—pretends to be deeper than it really is—and we always deduct a fifth from their accounts, and rather more from our own, believing, from careful observation, that Europeans do not as a general thing pulverize the soil thoroughly to more than four fifths of the depth which their accounts imply, and Americans only about three fourths.

Our fast friend—we can think of a farmer with such *notions* as his only as a friend—recommends ploughing nearly three times as deeply as has been the practice of even deep ploughers in this country. We are not going to take him to do for this, for we believe he is right. We would only guard against too sudden a change, without considering what the subsoil consists of. Some subsoils contain abundance of the salts of protoxide of iron, and other matters too sour and cold to favor the growth of crops, till long exposed to rains and air, or neutralized by the application of an alkali in the form of lime or ashes; and even that “large draft” on the farmer’s bank may prove inadequate to secure a crop the first year.

It may be said that if you deepen your soil all at once from three or four to ten or twelve inches, and lose the first crop, it is no matter, that you will be more than paid in the after crops. This might do for the retired merchant, who has money enough and more than enough; but the great body of American farmers can ill afford to plough deep, draw deeply from the manure-heap, and then wait years for a return. They need the return within six months of making the outlay.

We have generally recommended the deepening of a soil by degrees. We have said, run the plough an inch or two deeper each year, and watch the effect. Apply if possible a dressing of ashes or lime to the surface, to neutralize any acidity that may be turned up. If the crops are increased more than the expenses of cultivation are, keep on till they cease to be so increased. This would seem to be a safe course; and it is one which we would still recommend to farmers of limited means; though it may not in all cases be the best.

To illustrate our meaning:—suppose you have a field that has been ploughed four inches deep, and with twelve loads of manure to the acre has given you forty bushels of corn and other crops in proportion. There can be no very great risk in ploughing that land six inches deep and applying sixteen loads of manure to the acre, and ashes or lime on the surface of equal value with four loads more, equivalent in expense to twenty loads of manure instead of twelve. This, it must be confessed, would increase the cost of cultivation, for you can not thoroughly loosen and pulverize the soil two inches deeper than before without additional labor, and the eight extra loads of

manure are a part of the farmer's bank. If he uses them on that field he will not have them for another. But if the corn crop should be increased to sixty bushels and the after crops proportionally, the extra labor and manure would be more than met; and the farmer might with great confidence venture to eight inches with twenty-eight loads of manure for the next rotation, ten inches with thirty-six loads of manure for the next, and so on, increasing the depth two inches and the manure eight loads a year, as long as paying results should follow.

We may be thought over cautious by some. It may be said that the country is full of proofs, that we ourselves have published abundant evidence that deep ploughing pays better than shallow, and heavy better than light manuring. All this is true beyond a question, as a general rule. Nobody within gunshot of the age we live in doubts that ten inches of loosened soil, well filled with manure, pays better than a scratched surface with a *pinch* of manure. The farmers who have practised the former are maintaining their families in good style, educating their children; getting rich, growing large souled, elevating their profession; those who pursue the latter, unless rich by inheritance, are poor, and *getting* poorer, unable to send a child to a good school, too hard up to pay for an agricultural paper, close from necessity, and doing nothing to honor their calling. All this is but too manifest. It *sticks out*, is in *alto relievo* everywhere, can be read by all who have eyes.

Why, then, it may be asked, not sink the plough twelve inches at once and not wait till others become rich and you poor, through excessive caution? We answer; if you have abundant means, go ahead, sink the plough *all over in*, apply fifty or a hundred loads of manure for a rotation, douse in the lime and ashes to correct bad qualities in soil newly turned up, and probably you will come out well. But we are bound to say that it is not yet proved that such a treatment of every soil will be followed by results convenient to a man of limited means. If, therefore, men in this condition will *feel* their way to a better and a deeper cultivation, experimenting and *observing* as they proceed, we think they will come *surely* and not very *slowly* to the best course for them—to the one best adapted to *their* soil; and that, we believe, will turn out, in ninety-nine cases in a hundred, to be a course of *deep cultivation and heavy manuring*. If any say, It is vain to talk about heavy manuring, since every farmer uses all the manure he has and can use no more, we have only to reply, that heavy crops make more manure than light ones, and that it is very much at the discretion of the farmer, as we have shown elsewhere

and mean to show again, whether he is to have only a few loads of poor manure, or several hundred loads of good per year.

Those who think us over cautious, and would put down the plough from four or five to ten and twelve inches at once, would do well to choose the fall as the best time for doing it, as there is much in the influence of winter to correct those qualities of a soil just turned up, which might prove unfavorable to the first crop. If turned over again in the spring, manured proportionally with the depth of the ploughing and ashed, there can be no risk which a farmer of plentiful means need fear. Our caution is rather for those for whom it would be inconvenient to cultivate expensively and then fail of a somewhat speedy return.

FARM STOCK.

At a recent meeting of the Legislative Agricultural Society, in Boston, Hon. John Brooks in the Chair,

Mr. W. J. Buckminster spoke of the freedom of men in their choice of stock, and how their taste and judgment are indicated by the choice they make. In the selection of animals the great object should be to secure those that possess the qualities that are desired for the particular uses to which they are to be put. Some men ask why this society does not make some recommendations of the different classes of animals, and say that such animals are best for milk, such for work, and such for speed, etc. The reason is that all do not agree, and all are free to suit their own taste. Large animals are not generally most desirable; even for fattening-hogs, the breed should be selected that will make the most pork on a given quantity of food. So of horses and cattle; the amount of feed they require in proportion to their ability to labor, should be taken into consideration. Form and adaptation are the two principal elements to guide a choice.

Mr. Sheldon, of Wilmington, said the reason why he desired this meeting was that there never was a time when the raising of stock was more important than now. Hay, he thought, was not likely to be high for three years to come, and in that time it will be impossible to overstock the market. A good cow can not be bought for less than \$50, and he hoped that those who have good cows will raise their calves, believing that they would make more money than by fattening them for veal. There is no danger that beef can be very low within three years; for the calves must be raised and fattened before the amount of beef can be increased.

It is now profitable to raise pigs too. Since disease has affected hogs at the West, those raised in this State are more saleable; they have been sold for eleven or twelve cents a pound. He hoped there would be interest enough felt in the subject before the meeting to secure the raising of at least one more heifer calf in consequence of this meeting; indeed, he hoped there would be a general interest in raising more stock.

Mr. Stebbins, of Deerfield, coincided with the views of Mr. Shel-

don. He thought it would not only be three, but six years before there could be any reduction in the price of stock; calves are now brought from Ohio to the New-York market for veal. He knew of no business more profitable than raising stock; he had not killed more than five young cattle in ten years. Farmers in his section of the State make a great mistake in neglecting their young stock, suffering the calves to grow up without much care. Many seem to think that if they can keep a calf through the winter, with the breath of life in its body, it will do well enough in spring. A man may as well keep his laborers on half feed and expect them to do a good day's work. It is as important to keep cattle warm and well fed as to keep men so. Steers are broken and put to work too young; it is well to train them young, but not to work them hard till they are at least three years old.

As to horses, there are many more diseased horses now than there were thirty years ago. This is in consequence of too early and too hard work. It is possible to have a good horse for fast travel, for work, and a docile one that a woman may drive, in the same animal.

Mr. Macomber, of Marshfield, thought the subject of stock had been too much neglected in his part of the State. In his neighborhood, the stock of swine had been improved by the introduction of a breed by Mr. Webster—a cross of the Mackay and Suffolk. There is more attention paid to stock-growing in his region than formerly. More calves are being raised this spring than ever before. Their stock had been much benefitted by the introduction of foreign breeds of cattle.

Mr. Wetherell spoke of the great difference in the size of cattle at the present day compared with what it was twenty-five years ago. It is not uncommon now, to hear of cattle weighing, when dressed, 1500 lbs., while at that period it was very rare to hear of one that weighed 1000 lbs. That indicates improvement. One great objection to raising cattle is that a good veal calf will bring as much at six weeks old, as when a year old. Another objection is that butter, cheese and milk are so high. When a calf can be sold at six weeks old for from \$16 to \$20, and the milk can then be had for sale, it is difficult to persuade a farmer that it is not profitable to do it, rather than raise the calf. He spoke of seeing a yard of cows in Worcester County, so poor in the spring that they could scarcely get up. It would take half the summer to get them in decent heart, and the owner lost much by that course. Instead of being economy it is stinginess to pursue such a course. There is nothing so bad as that spirit of stinginess. Farmers do not cultivate an *esprit du corps* sufficiently. There is nothing so lamentable as to see farmers looking so much to professional men for opinion, and for the lean in society. Let farmers estimate themselves as they really are—the real aristocracy of society. If they will respect themselves they will command respect, and make their vocation respected as the highest and noblest employment of man. If any man can afford to speak out his opinion, it is the farmer.

Mr. H. E. Rockwell said he was reminded by the remarks of gentlemen in regard to the impolicy of keeping stock poorly through

the winter, of a stanza upon that subject written many years ago by a Connecticut farmer of much sagacity and experience, which was:

"Alas the fate of lousy calves!
They are ever on the wing;
For if they live the winter through
They often die in spring."

The same gentleman was remarkable for his love of order, and was much annoyed by the displacement of tools by careless help, and having been much annoyed by the trouble of finding the curry-comb, he one day put up in the stable in large characters the following, which may apply, as a principle, to other tools:

"Cursed be he, whoever he be,—
And let the whole stable resound it,—
Who uses a curry, although in a hurry,
And don't put it up where he found it."

Mr. Whetherell alluded to the practice of feeding poisons to some animals, particularly arsenic, as it is sometimes done, for the purpose of affecting the breathing of horses, or making their coats sleek. In that connection he spoke of the fact that at a certain distillery in Ohio *strychnine* and *tobacco* were used so as thereby to increase the amount of whisky. The fact that poison was thus used was brought to light by the other fact that the fish in the stream below the distillery were killed.

A WORD ABOUT TREE PLANTING.

AN exchange says: "Let a tree be set so as to be two inches deeper than it stood in the nursery; let some of the manure come to the roots; and when the hole is nearly filled pour in half a bucket of water."

We would set it just as low as it stood in the nursery; would carefully exclude all manure from the roots, letting nothing but clean soil touch them; and would pour the water on the ground at a little distance from the tree, so that it should reach the roots in the same minutely divided state as when trees are watered by showers.

If you were going to neglect a tree ever after transplanting it, it might possibly live longer if set two inches lower than it stood in the nursery; for in that position it might stand a severer drouth. But if the tree is to be neglected, better not set it at all.

As for letting the manure touch the roots, unless it were well rotted and composted most thoroughly with the soil, we certainly would not; and we would about as soon swallow mud pills to cure the dyspepsia, as to put the lacerated roots of a tree into a bed of mud. The soil should be in a moist, but pulverulent state, so as to fall into the cavities in a natural state; and then in order to afford sufficient, but not redundant moisture, the water should be left to trickle through as gently as in a rain storm, filtering itself as it passes.

In this way it would come to the roots as limpid as pure fountain-

water. Who ever thought of applying muddy water to a fresh wound? And yet nothing can be more grateful than fresh, clean water, slightly warmed. An ordinary cut, in a healthy person, will heal in twenty hours, if kept moistened with fresh water and secluded from the air. You have only to apply half a dozen thicknesses of linen, to keep them moist with water only—no rum to keep out the cold—and the healing process will go on of itself, and that rapidly and without pain.

It is so with wounded roots;—they should be moist but not drenched, and above all should not be smeared with mud. The truth is, trees will live in spite of a flood of water, at setting; but they will be more sure to live without it, and will do better.

These are our *notions*: but it is well that our readers can follow whose notions they please.—ED.

FOR THE PLOUGH, THE LOOM, AND THE ANVIL.

DOTS BY AN EAST TENNESSEAN.

At the heels of the severest winter since 1835-6, spring has opened up her balmy odors, and is resuscitating the dead grasses of the field and buds of the forest. Yet, with all her restoratives, she proves unable to force the fruit tree to exhibit the bloom. On examination, it is found in most places, that so severe was the freeze that the stock and branches of the fruit are partially dead, and refuse the passage of the sap. It is doubtless generally known that East Tennessee is proverbial for "*sweet-cider and dried apples*," and that her sons are known and called, west of the Mississippi, "*Yellow Legs*." It remains to be seen how long her land and hardy citizens may in truth be entitled to the honor implied by the appellation.

It has been said, I believe, that experience teaches a dear school; and those who will learn in no other, have been set down as "hard heads." Yet experience teaches an every-day lesson. "Who can but learn?" She has been one of my instructors in farming since 1836. Her lesson on *long food*, commonly called by farmers roughness, during the latter winter months, have, I trust, been of some advantage to me. Now it is the usual practice of our farmers here, to thresh out the wheat crop in the summer months, and haul out the straw and chaff and stack or rick it in the open field. There it stands exposed to the fall dews, early winter rains and snows, and by the time the cattle need it, it is at least 50 per cent. damaged. Well, this waste can be very well borne, with the quantity in ordinary winters, but I know my farming friends will agree with me, that it will not do for such a winter as we have just escaped from. I propose to change the practice, and I hope it may become general. The change pro-

posed is to have *every* farmer build a good shed or out-barn, and in it to shelter the wheat-straw for winter cattle-food, which I suppose would save 50 per cent. in nutrition, and I apprehend would loose nothing in returning manure to the soil, where it may be fed. I was th's last winter at the house of Mr. G., a practical farmer in Roane Co., who had adopted the plan here intimated. I looked at his shed and stock. He had raised from 110 acres of ground 2200 bushels of white (Bacon) wheat, housed the straw and chaff, and fully expected to winter one hundred mules on that straw without other food except salt. It is done. In the tour I made to friend G.'s, I had traveled through Grainger, Knox, Blount, McMim, Rhea, Hamilton, Bledsoe, Marion, White, Warren, Overton, Morgan, Anderson and Cumberland Counties. The improvement respectfully intimated, it is thought would apply generally; for I thought not enough of my farming friends paid sufficient attention to housing their long food for winter. I noticed in the Tennessee and Sequatchee valleys, most excellent crops of corn (in November) with evidences of abundance of other crops, whilst I thought the general practice of stacking prevailed. These valleys lie between the Cumberland mountain, north, and Tennessee River, south, and are wide, rich, and highly improved. Cumberland Co. lies on the wide apex of the mountain, spanning from base to base, here 47 miles, with about equal distance lengthwise. Here the forest growth is scrub hickory, black Jack chestnut, and mineral oak, clad on the surface of a light sandy loam, with an evergreen grass resembling much the prairie grass. The ascent on either side is not abrupt. The summit is attained by about three miles travel, when the top breaks off in a table, as described, with a general level land similar, now and then, to the Western prairies. This table lies, from the nearest guess I could make, three fourths of a mile above the valleys spoken of. And it would seem that once the floods were pent up south of this mountain, whilst for ages its heavy waves lashed the shallow surface named until, by its own industry, it succeeded in cutting a canal, 50 miles below, through the mountain, at what is called the "*Suck*," still lashing, still cutting, still throwing sediment on the table named, which, with the ebbing waters, lodged and remained, can give some idea in imagination, of the natural fertility, on the table, and still more in the valleys at the foot. These lands have laid long without cultivation, being the retreat of the wild game from the said valleys. Under the cheap entry system, in our State, they are now in the hands of efficient men, who are letting them out, or selling them for from fifty cents to one dollar the acre. I need hardly record what is so well and so generally known, that no country boasts more minerals, better water, pretty creeks and abundant water-power,

than Cumberland County, Tennessee. Here on the very top is her County site, Crossville; and on the main stage-road from Nashville to Knoxville, via Sparta.

A. L. B.

MILL BEND, TENN., April, 1857.

SELECTION OF SEED CORN.

THE following letter, published in the *New-England Farmer* twenty years ago, and lately re-published in the *Country Gentleman*, goes far to settle a point, which we have often urged, with regard to the selection of seed corn. It was written by Mr. Baden, then living, as the date shows, near Nottingham, Prince George's County; and was directed to Hon. H. L. Ellsworth, at that time Commissioner of Patents.

"Sir:—I received yours of the 14th, making inquiry respecting the 'Maryland Corn,' which you understood I had raised. I have the pleasure to say that I have brought this corn to its high state of perfection by carefully selecting the best seed in the field for a long course of years, having a special reference to those stalks which produced the most ears. When the corn was husked I then made a re-selection, taking only that which appeared sound and fully ripe, having regard to the deepest and best color, as well as to the size of the cob. In the spring, before shelling the corn, I examined it again, and selected that which was the best in all respects. In shelling the corn, I omitted to take the irregular kernels at both the large and small ends. I have carefully followed this mode of selecting seed corn for *twenty-two or twenty-three years*, and still continue so to do. When I first commenced, it was with a common kind of corn, for there was none other in this part of the country. At first I was troubled to find stalks with even *two good ears* on them, perhaps one good ear and one small one, or one good ear and 'a nubbin.' It was several years before I could discover much benefit resulting from my efforts; however, at length the quality and quantity began to improve, and the improvement was then very rapid. At present I do not pretend to lay up any seed without it comes from stalks which bear *four, five or six ears*. I have seen stalks bearing eight ears. One of my neighbors informed me that he had a single stalk with *ten* perfect ears on it, and that he intended to send it to the Museum at Baltimore. In addition to the number of ears, and of course the great increase in quantity unshelled, it may be mentioned that it yields much more than common corn when shelled. Some gentlemen, in whom I have full confidence, informed me they shelled a barrel (10 bushels of ears) of my kind of corn, which shelled corn measured a little more than six bushels. The common kind of corn will measure about five bushels only. I believe I raise double or nearly so to what I could with any other corn I have ever seen. I generally plant my corn about the first of May, and place the hills five feet apart each way, and have two stalks in a hill. I suppose I have now in my corn house, fifty, and perhaps more, stalks with the corn on them as it grew in the field, and none with less than four, and some six or seven ears on them.

"Early last spring, I let George Law, Esq., of Baltimore City, have some of this seed corn; he sent it to his friend in Illinois, with instructions how to manage it. A few weeks since he informed me that the yield was one hundred and twenty bushels on an acre; that there was no corn in Illinois like it, and that it produced more fodder than any other kind. * * * I believe I have answered most of your inquiries. I hope I have not exaggerated—I have no motive for doing so. I raise but little corn to sell, as tobacco is my principal crop.

THOS. N. BADEN."

FEEDING CALVES.

A CALF should never be changed suddenly from all milk to all grass, but it should be brought about gradually; otherwise the growth may be injuriously affected. The food with which they are fed has a powerful influence on the milking properties of all cows; and the mode in which they are reared has a considerable effect on their capacity to give milk. In milk we have all that is necessary for the growth of the young animal, and it is the type and representative of all food; for, unless an aliment contains the principles of milk, it is not fitted for the promotion of the health and perfect development of the body.

It is a bad thing to feed calves on skim-milk, as both the butter and casein have been removed in the shape of cream. Earl Spencer, of England, who was very successful in weaning his calves, fed them first with new milk and then with skim-milk and meal—the latter supplying the necessary nitrogen and nitrogenized materials.

Exercise for a calf that is to be raised is a necessity, but for all fattening animals the reverse. Care also should be taken not to expose them to the cold, and particularly to sudden changes. Much exercise of milk cows decreases the production of butter, and increases the yield of casein. Poor pastures produce most cheese, and stall-feeding most butter.—*Patent Office Report.*

CUTTINGS.

IN putting in cuttings, never leave but one bud above ground. Whether the cutting have two, three or four buds, all but one should be put under ground, and that one but just above the surface. If you put but one bud under ground and two or three above, the leaves formed from those above are out of proportion with the roots from that below; they evaporate water faster than the roots can supply it; and the cutting droops and dies, on much the same principle as when, in transplanting a tree, you deprive it of a large portion of its roots without equally diminishing the top. Whether a cutting should be placed horizontally and shallow, or thrust deeply into the ground, depends much upon the nature of the soil. If the soil is inclined to

retain water, it may be shallow, but should approach a perpendicular direction, running deeply, in a soil that readily evaporates water.—ED.

THE WEST.

AMONG what we regard as the most unmistakable evidences of Western prosperity, are its establishments for the manufacture of agricultural implements. This thought is suggested to us by a notice, in the *Freeport (Ill.) Journal*, of Sangor's Steam Plow Shop, at Belvidere, Ill. If the valley of the Mississippi were seven times more fertile than it is, it could not prosper permanently, by agriculture alone. Educational institutions, to develop mind, to lift the soul above groveling pleasures, to stimulate genius, to make *the man* and set him at work, are the first requisites of prosperity. This, our Western brethren understand, and are laying their foundations deeper and broader, we believe, than any people have ever done at so early a period of their history. The very next essential to permanent prosperity, is a just combination of the mechanic arts with agriculture. This also the West understands. As Eastern men, we might wish the West to send their sons here to be educated; to employ us to manufacture their reapers, ploughs, hats, shoes, coats, dresses, pots, kettles, hoes, spades, and all the rest—a course, sure to enrich us if our soil were ten times poorer than it is, and to impoverish them if theirs were ten times richer.

But looking, as our present position teaches us, at the whole country, we do not on the whole desire such a result. A nation that prosecutes agriculture in undue proportion with the other industrial arts, is doomed to poverty, no matter how fertile its soil, or how wide its domain. So long as it depends on foreign manufacturers, its destiny is to enrich the nations it trades with, and impoverish itself. It is much so with different portions of the same country. If we loved New-England only, we might wish the West to buy her reapers, and the South her cotton gins of the North; the one to send her wool and the other her cotton, to be spun in Eastern mills. It might be better so for the North-east, though we have doubts whether it would in the long run, since wealth is not the only thing to be sought; but quite certain are we that it will be far better for the West and the South to take care of themselves, as well in the matter of manufactures as of agriculture. Education, agriculture, and the mechanic arts, duly distributed, will make a nation or a section enterprising, energetic, prosperous, and nothing else will do it, in spite of a poor soil, as Massachusetts, with a soil but half fertilized, coarse as pumpkins, and hard enough to strike fire all over, is a living witness. What is

more, they will do it, in spite of a good soil, as we have no doubt our Western States will testify by a long experience yet to come.—ED.

CARE OF FRUIT AND ORNAMENTAL TREES.

THERE seems to be a great deal of practical good sense and good economy in the following suggestions from a writer in the *German-town Telegraph*, which we copy, as the basis of a few remarks on the above subjects:

“It is not always necessary or indispensable, in order to have good fruit and enough of it, that a section of the farm be especially set apart appropriated to its cultivation. There are many corners and ‘segments of soil,’ unoccupied by any valuable crop, where a few trees can be grown; and as such ‘out of the way’ places are commonly rich in the elements of vegetable life, the growth of trees, when properly set, is there even more rapid and healthy than in the best cultivated soil. A homestead, where every nook and corner is occupied with thrifty and prolific trees, presents a truly rural and beautiful picture of industry and thrift, and can not fail to exert a most genial and elevating influence upon the owner’s mind. Cherry, peach, plum and quince trees, together with apple and pear trees, grape vines, etc., may thus be scattered around your yards and enclosures at trifling expense, and having a rapid and vigorous growth, when properly nurtured, will soon reward you for your industry and forethought, with the grateful richness and abundance of their fruit. Set a tree, therefore, by all means, wherever you can find room.

LOWER DUBLIN, April 13, 1857.

AGRICOLA.”

Trees are more easily protected from the depredations of stock, if arranged in an orchard. If placed as near each other as may be without interfering, they mutually protect each other from cold winds; and if arranged in the orchard form, they better admit of being surrounded with rows of shrubs and forest trees—an excellent practice in peculiarly exposed situations. The setting of here and there a fruit tree, as the soil and selection favor, should hardly be adopted as a substitute for the well-fenced and carefully preserved orchard. But as an auxiliary means of securing fruit, of giving beauty to the landscape, and of appropriating each nook and corner to something useful, and for which it is best adapted, it deserves to be recommended. On the way-side even, the practiced eye will detect positions where a standard apple tree would be in no one’s way, where it would grow and produce abundant fruit for a quarter of a century at least. There might be another advantage. We think it would sometimes happen, that when insects prey upon the orchard, isolated trees about the farm would escape their ravages.

Our object at this time is rather to speak of the care of trees. To set a tree, and then take no care of it, is labor lost. For the first

summer at least, the young, newly transplanted tree can not well endure the changes of temperature and occasional drouths incident to our climate. The application of water in moderate quantities, at sunset, would remedy the evil, if done regularly and with great good judgment. But this would imply too much labor. It would be likely to be neglected. There is a surer way. It is cheaper and better. A *mulching* of straw, marsh-hay, leaves, or something of the kind, will keep the ground more even in temperature, more uniformly moist, in a state more genial to the healing and growth of the roots, than all the personal attention that could possibly be applied. It costs nothing, for the enriching properties of mulch are worth more than the labor of applying it. It is steadily there. It will never forget to do its offices both of keeping the soil moist and of nearly uniform temperature by day and by night and from week to week. It should be applied when a tree is transplanted, but may be applied long after advantageously. If your young trees are not mulched, now is the time to mulch them. Do not let haying and harvest approach without having it attended to.—ED.

GREAT CROP BY LIQUID MANURING.

It is stated in the English papers that J. Nelson, a farmer on the Earl of Derby's estate, about eight miles from Liverpool, raised one hundred tons of Italian rye-grass, last year, on one acre of land, by liquid manuring; that the soil was previously fertile and well drained, but never had yielded anything to compare with this crop:

About believing this! Let us see;—is it possible that 100 tons of that succulent grass should give off 85 tons of water in drying, leaving 15 tons of dried hay? As the seasons there are longer than here, may that prolific acre have been mowed five times? If so, it would imply three tons of dried hay at each cutting—a rather hard story to believe after making the best of it. Our readers can do as they please. We should beg to be excused, if we had not seen enormous crops of grass on irrigated land in that island only five weeks after an equal crop had been removed, and heard farmers there say that five such crops could be grown between January and December. After what we have seen we are prepared to swallow any thing in that line, that is not too tough. The power of liquid manuring on the grasses is certainly very great, whether his Lordship's farmer raised a hundred tons of grass on a single acre in one year or not.—ED.

CAPACITIES OF CISTERNS.

WE see it stated in an exchange that a cistern 5 feet in diameter will hold 5 2-3 barrels to each foot in depth, and 7 feet in diameter 9 1-3 barrels per foot; 8 feet nearly 12 barrels; 9 feet 12 7-8 barrels; 10 feet 14 2-3 barrels per foot.

If the above calculations are correct—we have not verified them—a cistern 8 feet in diameter and 8½ feet deep would hold just about a hundred barrels. This would be a convenient size for watering stock on a moderate-sized or a small farm.—ED.

ECONOMY FOR THE FARMER.

A WAY TO SAVE \$50 A YEAR. Let the farmer who is in the habit of ploughing, manuring and hoeing five acres to produce 150 bushels of corn, or other crops to that amount,—use the manure usually applied to the five acres, on two acres, and get the 150 bushels of corn; then expend the money it would cost to work the other three acres in guano, superphosphate of lime, and plaster, and use the compound for top-dressing his grass lands. No one need send me a dollar for this recipe until he has saved \$50 to himself by the change.

ANOTHER. Let those farmers who are in the habit of hauling muck in summer and autumn and spreading it over the whole surface of their cattle-yards—if they have not dry sheds to place it under and keep the cattle upon it,—stack it up and keep the water from it by a covering of boards; then keep their cattle in the barn at night instead of the yard, using enough of the dry muck to absorb all the liquid manure,—always taking care that the manure is sheltered from sun and rain when thrown out of the “tie-up,” till wanted for use. This is the summer arrangement. In winter, instead of keeping their stock out of doors during the days, and throwing their coarse fodder to them there, let them be kept in warm barns, except the time necessary for them to drink, and let them do all their eating and dropping manure under cover, having a supply of the dry muck or or other absorbent, to take up the liquid portion of the droppings. No one need send the dollar for this until he has saved \$100 by it.

ANOTHER. Let the man who has planted three or four acres of potatoes and got “small potatoes and few in the hill” in return—plant one half acre; if they do well it is enough for the family; if they fail, it is enough to lose. Then, instead of the other acres of potatoes, let him plant one acre of ruta бага turnips, and get 600 to 800 bushels. These turnips, with the coarse fodder, often thrown into the yard and trodden under foot, or used for bedding, will enable him to keep some six or eight additional growing cattle, and to keep them in growing condition, too—quite an item. There are not cattle enough in the country. Need n't send the dollar for this till you get ready.—N. FOSTER, in *Me. Farmer*.

GARDINER, April 20, 1857.

CURE FOR THE "STRETCHES."

SINCE we have had the care of a flock of Merino sheep, we have, during the winter season, lost some of the best specimens of the flock by this disease; and after using most of the medicines recommended, have thought the disorder incurable. This winter we were induced to make a trial of unground seed in connection with castor oil. We gave a tablespoonful of the seed, with a little more than that quantity of oil mixed together, and in an hour or two the animals were chewing their cud, and were soon well. I informed a skillful sheep-breeder in this neighborhood, who had at the time two desperate cases on hand. The mustard-seed and oil was given with complete success. The disease should be attended to in its first stages; and in order to be able to do this, the person who feeds the flock should remain a while after feeding, to ascertain if any are off their feed, and showing signs of sickness. We communicate this matter to the "Cultivator," thinking it may be opportunely for another winter, if not this.—CHARLES COLAY, in *Country Gentleman*.

SHORT HORNS RISING.

THE recent Short Horn sale of Mr. Lorimer, of Banffshire, Scotland, resulted in ten animals calved in his herd within the last fifteen months, bringing a total price of 530 guineas, which shows an average of 53 guineas per head, adding to this large sum, 131 guineas for four heifers, all of them under two years. The average value of the heifers is thus very nearly £34 10s. a head. The bulls average about twelve guineas, and the heifers about four guineas a head more than last year.

In a cool climate, equable in temperature, rather damp and abounding in rich pasturage, there can be no doubt that the Durhams, or short horns, produce a large amount of beef in a short time, as in these circumstance they grow rapidly and come to maturity early. It is doubtful whether any other breed can be made to produce as much beef in as short a time or with as small amount of food. But as circumstances vary, a different economy will prevail. If you want cattle for the dairy, the Durhams are not the best. If you want them for work, they are not the best. If you are not willing to afford your cattle an abundance of food at all times and to take the best care of them, the Durhams are not the best. And if the climate is not mild and the pasturage rich, they will not long retain the valuable characteristics which they exhibit when first brought to this country.

We are confident that a herd of Durham cattle, sometimes well fed and at others starved, as ours have too often been; at one season scorched under our intense suns, at another chilled by our sharp frosts, without proper shelter; with little attention to judicious pairing, and less to the rearing of the best progeny; however fine they

might have been at the outset, would be nothing to brag of after a ten years' experience, such as we have described, and such as is but too common in our country.—ED.

PEAS WITH POTATOES.

MR. EDITOR:—Peas should be rarely grown by themselves upon the farm, but sown with oats, wheat or barley, unless the crop is intended to be used green, and in this way they do much better, no doubt, than if occupying the soil wholly by themselves. When cultivated or grown with other grains, in the manner indicated, they can be separated by means of riddles, without much trouble, and there are some winnowing mills which perform this work very well. The pea is a vegetable much exposed to insects; the "pea-bug" being its most common foe; but when sown with grain it commonly escapes its attacks. But the cheapest way of securing a sound and perfectly clean crop of peas, is to plant them with potatoes. A few dropped in the hills with the seed, are no detriment to the potatoes, and generally grow rapidly and well, making a good crop, if not injured by the bug, and adding the full value of their price to the income of the soil, without any deduction for cultivation or any thing else except the seed, which is a mere trifle, and scarcely of sufficient importance to be taken into the account.

I have known eight or ten bushels raised in this way, and of as fine a quality as could reasonably be desired. It was thought, at the time, that the value of the peas fully discharged the expenses of the potatoes, after planting, as they were so fine and brought so high a price.

Where potatoes are planted in drills, if peas are to be cultivated with them, they should be dropped in clusters—not *sown* along the lines—at intervals of a foot or eighteen inches. A closer stand would expose them to the evil so common to them when sown broadcast by themselves, viz.: the "mildew."

Many farmers deem it advisable to plant beans with their Indian corn; why not, then, plant peas with their potatoes? The food of the pea is essentially different from that required to sustain the potato, as the food of the bean is from that of Indian corn. If, by adopting these practices, an actual and clear *gain* can be secured without detriment to the principal crop—ought it not for economy's sake to be done? Most farmers have a sufficiently hard time to make "both ends meet," under the best management, and any innovation likely to operate as an easement, is therefore especially desirable. In recommending this plan, I am recommending only what I have tried and *proved* to be practicable.—A PRACTICAL FARMER, in *Germantown Telegraph*.

The potato is a potash plant, requiring for its growth much potash and little lime; while the pea is a lime plant, requiring much lime and little potash. It is but reasonable, therefore, to conclude that they would grow together more harmoniously than two plants feeding heavily on the same food. This would be a little like the old man we have heard

of, who said he and his wife agreed *exactly* about oysters, because he wanted all they could pay for, and she wanted none. We thought something might depend upon who carried the purse and did the marketing. But let that go. The potato might say to its co-tenant of the same soil, "You take the lime, and give me the potash; the pea might say, "Agreed!" and so they might get along pretty well together. But both would want ammonia. Several other ingredients would be wanted in common. With regard to some of these ingredients,—might not the two crops be somewhat in the position of two pigs eating out of one trough, into which food but for one was placed? In common farming (not in gardening) we have always inclined to the opinion that one good crop in a year was about enough; and although "A Practical Farmer's" idea of growing potatoes and peas together seems not unreasonable, yet it is one of those things about which we should want to see, in order to believe. It would be very little trouble to make the trial.—Ed.

METEOROLOGICAL REMARKS ON THE YEAR 1856.

THE winter was the most severe that the oldest inhabitants ever experienced, the mercury ranging lower than ever before, with the snow, a majority of the time, over two feet deep, and remaining longer in April than before in twenty years. The month of May was uncommonly wet and cold. Many farmers did not plant corn until June, and a number planted over three times. The summer was so dry that many crops did not amount to one fourth a crop, especially buckwheat, and late sown oats and pastures were scorched brown by the 10th of August, and cows near dried up at the last of summer. Springs and wells, from the middle of July to the end of the year, dryer than ever known before. Grist-mills on creeks in this vicinity, stood still for want of water, more months than ever before, and winter commenced with streams, summer-low.

The price of grain and produce ranged much lower than in 1855; wheat, during the autumn and Dec., \$1.50; rye, 62½ cts.; corn, 62½ cts; buckwheat, 48 to 50 cts.; oats, from 37½ to 40 cts.; butter, from 20 to 23 cts. per pound; beef, per hundred, \$5 to \$6; pork, 7 to 8½ cts. per pound, in the hog.

ROBERT HOWELL.

NICHOLS, Jan. 1, 1857.

TO KILL INSECTS ON FRUIT TREES.—M. Tessler has sent a communication to the Imperial Horticultural Society of Paris, stating that the ammoniacal water of gas-works will destroy the insects which are so destructive to our fruits. In the neighborhood of cities this is worth trial. The water of the gas-works should be diluted with

three fourths its own quantity, and sprinkled over the leaves and branches. Trenches should be dug in proper directions to receive the water as it falls, and this will destroy the insects below the surface of the ground.—*Culturist*.

WHO WOULD NOT BE A FARMER?

THE *Louisville Courier* pays the following tribute to the occupation of the farmer:—"If a young man wants to engage in business that will insure him, in middle life, the greatest amount of leisure time, there is nothing more sure than farming. If he has an independent turn of mind, let him be a farmer. If he wants to engage in a healthy occupation let him till the soil. In short, if he would be independent, let him get a spot of earth, keep within his means, to shun the lawyer; be temperate, to avoid the doctor; be honest, that he may have a clear conscience; improve the soil, so as to leave the world better than he found it; and then, if he can not live happily and die content, there is no hope for him."

BE CAREFUL WITH GUANO.

It may not be as generally known as it should be (says the *Philadelphia North American*) that great danger may be incurred by the reckless handling of guano. We understand that cases have occurred of persons having cuts upon their fingers who, in handling this manure, have received a deadly poison into the system. The guano contains an organic element which is just as certain to operate against life if it once reaches the blood, as the corruption of a body that gets into a wound upon the person of the dissector. Farmers should be aware of this fact and be cautious. We heard of a death from this cause occurring within a few days in a neighboring county.

A HINT FOR THE SEASON.

NEVER was a time when farm work was more behind, or drove harder than it is likely to, if this present north-easter, already of ten days' continuance in this region, shall not cease. Planting, haying, harvesting, will come as thick as Job's afflictions. One will not be gone before another arrives.

Remember, in the press, which will most certainly be felt, that it hurts no man to work; but to work unreasonable hours and beyond our strength is unfavorable to health and destructive to that clear-headedness which none more than the farmer needs. We would say, do what you can by team labor; use labor-saving implements, where it will transfer the toil from human to brute muscles; and above all lay out the work if possible, so that all will go on without disappointment and fretting. Much depends upon doing the head work well—keeping hands and teams all employed advantageously.

We know from experience that it is easier to preach this doctrine

than to practice it ; but we only remind you in a spirit of fraternal kindness ; and we want you to remember what we have often said, if it is true, and of that you must judge, that ten times more American farmers injure themselves in body and mind, by over-exertions at pressing seasons, than by accomplishing too much in the whole year.—ED.

SPIRIT OF THE AGRICULTURAL PRESS.

“IN transplanting trees, the aim should be to secure enough branchy roots to give the tree a secure foothold in the soil, and enough cut ends, and these stout enough to re-supply the spongioles with as little of time as possible,” (*Louisville Journal*), and then the top should be reduced about in the same proportion as the roots have been.—ED.

“MANURES.—Manure is the basis of all good husbandry. *Manure feeds the crops ; crops feed the cattle ; cattle make manure.* This is the endless chain.”—(*Prairie City Chronicle*). It is an endless chain which all farmers use, whether they think it or not ; but, alas, the links are too small. Manure is the first link, cattle wintered is the second, next year's crops is the third. The first link governs the size of the others. The manure on our farms should be nearly doubled in quantity, and quite doubled in value ; and it can be, if the directions we are giving from time to time are followed.—ED.

“PLANT ALL YOU CAN.—There is a great scarcity in the land. It is quite certain that good prices will rule for a year to come. Let every man plant every acre possible. Sow all the wheat you can. Sow all the oats you can, and plant all the corn and potatoes you can. There will be a good demand for every bushel of them. Lose not an hour until every available acre is in use.”—(*Freeport (Ill.) Journal*). It seems rather late in the day to re-publish this ; but we suspect that it is true, and that farmers who have facilities for getting in late crops—as buckwheat, turnips, etc.—would do well to heed it. Present appearances are, certainly, that the great cereal crops, as a whole, will be this year below an average.—ED.

“ORCHARD.—Attack the caterpillars by burning them with the camphene lamp, described in a former volume”—(*Mapes' Working Farmer*),—or, as we lately recommended, with the hand in a coarse glove ; just as you think best—only *kill 'em*. Don't let a brood live two days after they make their appearance. It is a pity to have your orchard a scene of swingling-tow desolation. Take our advice ; kill them, any way you please ; we know you will be pleased with the result this year, and especially the next.—ED.

“ADVICE TO YOUNG FARMERS.—Allow me to say to young farmers especially, let us be studious and inquisitive, as well as laborious ; let

us be simple and frugal in our habits; avoid needless expenditures; leave fine dress, and fast horses, and showy dwellings to those who really need such things to recommend them. Let us remember that for health and substantial wealth, for rare opportunities for self-improvement, for long life and real independence, the farmer's is the best business in the world."—*Goldthwaite*. It is so.—Ed.

"Other countries are pressing forward for supplies of Peruvian Guano, to which quality we are now exclusively restricted. The continent takes some 40,000 or 50,000 tons; the United States import 70,000 to 80,000 tons; (the port of Baltimore alone taking half that quantity), the sugar and coffee growing colonies are also liberal customers; and therefore, while the aggregate annual exports from the Chinchas are larger, we do not receive as much now as we did ten or eleven years ago."—(*English paper*.)—If the article obtained at Baker's and Jarvis' Islands, in the Pacific Ocean, which we understand are already taken possession of by our government, should turn out as good as Mr. Benson, President of the American Guano Company anticipates—a question on which we can not yet speak, for the want of accurate knowledge—our tribute to the Peruvian Government will cease. The above named islands unquestionably contain an immense amount of guano. Samples of it have been brought to this city, and are being distributed over the country to farmers, who will test its value for different purposes, by careful experiment. We have a quantity of it, and will give a few pounds to any farmer who will call on us, as long as it lasts, that its value may be known among farmers, and that they may have the best possible means (that of actual trial by the farmer himself) of deciding whether, and at what price, they can afford to purchase it, when our market shall be supplied with it, which we understand will be soon.—Ed.

"FARM-YARD manure, except on the farms of the best agriculturists, is very much what it was a century ago, and there are few who could not introduce improvements."—(*London Farmers' Magazine*.) One would think this writer meant our country, instead of Scotland. Our observation in both countries is, that to one farmer there who lets half the value of his manure wash and steam away, a hundred do it here; and although we believe in Peruvian guano, at a *decent* price, and in Baker's and Jarvis' Island guano, if it shall prove about as good as Peruvian, and but two thirds as high; but we believe in farm-yard guano first, and to the utmost extent it can, by a just husbandry, be made to answer the purpose of foreign fertilizers.—Ed.

"VENTILATING HAYSTACKS.—The British farmers have a method of ventilating their hay, oat, and barley stacks, which we may frequently adopt with advantage; and in stacking corn-stalks, it would be

always beneficial, They fill a large bag, say 3 1-2 feet high and 20 inches in diameter, with straw, and place it vertically in the center of the stack, putting the barley, oats, or hay—whichever it may happen to be—around it. As the stack rises, they lift the sack; and so on to the top. In this way, there is a chimney formed in the center of the rick or hay, into which the steam or gases generated find their way and escape readily.”—*Wool Grower and Stock Register*. This may be a good measure. We doubt it. It would be better to dry the hay well and put into a solid stack, if this can be done.—Ed.

GUANO is sold by the agent of the Peruvian Government in New-York, at \$60 per ton for No. 1, in bags of about 160 or 170 lbs., and 500 tons or upward at once, on 60 days' credit. In smaller lots, it is \$65 cash. We believe that it is not sold in less parcels than 25 lbs. by the agent. It is a mystery to many persons how retailers sell guano at less than these prices. They may do so and be honest; because they buy long tons and sell short ones; and as it costs about two and two third cents a pound, if sold at three cents, which is the usual price, it affords a fair profit—say \$7 a ton.

WAY OF USING GUANO FOR CORN.—Mix good guano, thoroughly, with six times its weight of dry, rich loam, several days before using it. Drop half a pint of the mixture into each hill, before planting the corn. You may sow guano broadcast, also, on the same field on which you practice the above method. If the soil is heavy, harrow it in; if light, it may be ploughed in with a light plough. This should be done before planting, of course.—*Farm Journal*.

CATERPILLARS—(KILL THEM)—TREES—VINES.

As caterpillars leave their nest at about 8 o'clock A.M., and return to them at 5 P.M., they should be attacked before or after those hours. Boiling water poured into the haunts of ants will destroy them.

If your trees were properly washed in early spring they will not be hide-bound now. Treat sluggish grape-vines as recommended in Mr. Galbraith's paper in a former volume. Sow a very slight quantity of fine salt around plum and some other fruit trees as recommended; trim off shoots from the trees.—*Working Farmer*.

SHEEP.

It is thought by many, and we think correctly, that the grazing of pastures by several species of animals is better for the land, and gives more profit, than grazing by any one species. The following statements will throw some light on the question, whether it is well for the small farmer, who does not make wool-growing a business, to keep a few sheep. They are from the Transactions of the Hampden Co. Agricultural Society, Mass., for 1856.—Ed.

SAMUEL BEBEE'S STATEMENT.—The amount of income realized by me on the sheep which I offer for premium, is enumerated in the following statement:

The quantity of wool sold from six of these sheep, for the year ending in

September, 1853, was 26½ pounds at 52 cents, \$13 78; six lambs, 462 pounds, at 4 cents, \$18 48; one ewe reserved for stock, \$3 08—total, \$35 34, or \$5 89 per head, the six sheep being at that time but two years old.

Income from the same six sheep for the year ending September, 1854, they being then three years old: 25½ pounds wool at 42 cents, \$10 71; six lambs, 345 pounds, at 5½ cents, \$18 11; four ewes reserved for stock, estimating their weight as equivalent to that of the four best sold, \$13 28—total, \$42 10, less the value of the yearling fleece included above, shows the product of the six old sheep to be \$40 57, or \$6 75 per head.

Income from seven old sheep (six of them four, and one two years old,) with four yearlings—eleven in all—for the year ending September, 1855: The seven old sheep produced fifteen lambs, four of which were lost during the extreme cold weather in which they were dropped. The remaining eleven lambs, weighing 576 pounds, were sold at 6 cents, amounting to \$34 56; and of the whole clipping from the eleven sheep—39 pounds—24 pounds 13 ounces comprised the product of the seven old sheep, which was sold at 40 cents, amounting to \$9 92, and making a total of \$44 48, or a fraction over \$6 35 per head.

Income of ten sheep for the year ending September, 1856, (one old ewe of the original stock having been slaughtered during the last autumn,) the ten including five five years old, one three years old, and four two years old: Whole number of lambs, sixteen, of which three were lost, two of them by being poisoned when their weight was 35 pounds; received for the thirteen sold, \$47 55; one black lamb reserved for use, \$5; 31 pounds wool sold at 42 cents, \$13 02—total, \$65 57, or \$6 55 per head.

My sheep are South Down—the same which I have had on my farm for eight or ten years—and originated from the flock owned by Paoli Lathrop of South Hadley. The ewe marked with three stripes of red, (one of the number exhibited by me this year,) is five years old, and has brought me nine good lambs, one of which was lost, but the remaining eight netted the sum of \$55.

South Wilbraham, Oct., 1856.

SAMUEL BEBEE.

HORACE CLARK'S STATEMENT.—The flock of sheep exhibited by me, ten in number, was appraised at \$50, or \$5 per head, April 1, 1856, and I submit the following statement of their product for present year:

52 pounds wool sold at 40 cents, - - - -	\$20 80
12 lambs " " \$3 per head, - - - -	36 00—\$56 80
Cost of keeping one year, \$1 50 per head, - -	\$15 00
Washing and shearing, 8 cents per head, - -	80—\$15 80
Net profit,	\$41 00

As these sheep are young, they will probably be worth as much in April, 1857, as they were in April last, for which reason I have made no deduction in their estimated value, in the presentment of the foregoing items.

Wilbraham, Oct., 1856.

HORACE CLARK.

J. L. S. WESSON'S STATEMENT.—The flock of sheep which I offer for premium consists of ten, and their product for the current year is as follows:

35 pounds wool sold at 40 cents, - - - -	\$14 00
11 lambs sold, - - - -	38 93
1 " reserved, - - - -	2 00—\$54 93
Expenses for keeping, etc., - - - -	15 00
Net profit,	\$39 93

Wilbraham, Oct., 1856.

J. L. S. WESSON.

C. L. BUELL'S STATEMENT.—The flock of sheep which I offer for the Society's

premium, consists of nine ewes and one buck, the former of native stock, the latter a mixture of South Down and native. The buck is two years, and the ewes from four to eight years of age. About the first of January last, seven of these ewes dropped one lamb each; in April following the remaining two dropped each a pair of twins; and about the first of July the seven first named again dropped one lamb each—making eighteen lambs from the nine ewes within seven months. Eight of the lambs were sold, in June, at \$4 per head. Three of the twins being ewes, were reserved to increase the flock, and these, with the seven last dropped, are the ones now on exhibition. The ewes will drop lambs again about the first of January, 1857. The average weight of fleece of the entire flock, was 4½ pounds. The keeping of these sheep has been plenty of good hay in winter, and ordinary pasturage in summer.

Ludlow, Oct., 1856.

C. L. BUELL.

SAMUEL WARNER'S STATEMENT.—The product of the sheep offered by me for exhibition and premium, has been for the present year as follows:

5 lambs sold at Brighton, - - - - -	\$22 50
9 " " at home, - - - - -	27 00
3½ pounds wool per head, at 40 cents, - - - - -	19 00
	<hr/>
	\$69 10

SAMUEL WARNER.

Horticultural.

HORTICULTURAL HINTS.

In copying the following from the *Country Gentleman*, we are aware that we commend that Journal to our readers, a thing which we are willing to do, because it deserves commendation:

Crops of garden vegetables will soon come forward rapidly, and nothing will contribute more to their vigorous and successful growth than preserving a clean and perfectly mellow soil about them.

Transplanting Cabbages, may be successfully performed even in dry weather, by dipping the roots into thick mud before setting out. Wrapping a roll of stiff paper, (previously oiled would be better and more durable) around each stem, so as to cover it an inch or two below and above the surface of the earth will effectually exclude the grub.

Irrigation with liquid manure, or even simply with water will greatly accelerate the growth of many vegetables. Radishes are much improved by watering. Strawberries have been doubled in size, and raspberries much increased.

Young budded and grafted trees, will require early attention in rubbing off the shoots that spring up from the stocks; and young transplanted fruit trees for gardens and orchards, should have useless shoots taken off and long ones pinched back, so as to form regular symmetrical heads.

Thinning fruit on trees, may seem like a very unnecessary operation, after the past two or three intensely severe winters, which in many places left little for thinning. But they should not be permitted to overbear. We are not sure that the unfavorable seasons which have lately occurred, have not on the whole proved a benefit to orchardists, by allowing their trees to recover from the effects of hard cropping. One of the easiest ways of thinning the fruit, is to thin out the bearing shoots, and this is especially the case with peaches; it should be done in spring, but is not too late even after the trees are in leaf.

Mulching should not be forgotten. It should be performed as soon as the

hot dry weather approaches. It is especially useful to such fruit trees as can not be kept well and constantly cultivated, such for instance, as stand in grass land, or along boundaries. As often performed, it is not complete and thorough enough. The litter which forms the mulch, should be at least four or five inches thick after packing down, and should form a circle around the tree, at least equal to its height. Cherry trees, set out in the spring, and which commence with a promising growth, often wither and die about mid-summer—a disaster which is effectually prevented by timely mulching.

Dishwater and *soapsuds*, instead of being appropriated to the formation of an interesting puddle at the kitchen door should be poured at the roots of young fruit trees, raspberry and currant bushes, and will accelerate their growth and augment the size of the fruit.

TRIMMING GRAPE VINES.—For many years we have raised grapes by the bushel from a single vine, and our trimming is done in the following manner: The first week in July we commence and cut back to the second leaf or bud of the present season's growth. Have a sharp knife and trim a portion every day (a little at a time) until the whole vine has been gone over. Autumn, winter and spring pruning are avoided; but we have large, nice, smooth grapes in abundance.—C. G. L., *North Bloomfield, N. Y.*

AN ANCIENT OAK.—One of the oldest trees in Europe was struck by lightning in the month of July last. This tree, an oak, had been planted near Chatillion-sur-Seine (Cote d'Or,) in 1070, by a Count of Champagne. The oak, which had therefore existed 786 years, measured seven and a half metres in circumference, and had produced acorns up to 1830.

TO PREVENT BUGS ON VINES.—Plant beans among your cucumber vines, and others, and let them grow among them till the vines get strong enough to resist the bugs, then pull up the bean plants, and throw them away. This has been tried, and found effective.

So says an exchange.—Ed.

YELLOW BIRDS.—A farmer near Binghampton, N. Y., last year, in order to convince a neighbor of the usefulness of birds, shot a yellow bird in his wheat field, opened its crop, and found in it two hundred wevils, and but four grains of wheat, and in these four grains the wevils had burrowed.

TO PRESERVE FLOWERS IN WATER.—Mix a little carbonate of soda with the water, and it will preserve flowers for a fortnight, but the water in flower-pots should be changed every day in summer or it will become offensive and unhealthy, even if there is salt in them.

BLACK PEPPER, dusted on cucumber, melon and other vines, when the dew is on, is said to drive away the striped bug, and will do no harm to the plants.

POWDERED charcoal placed around rose bushes and other flowers, has the effect of adding greatly to the richness of the flowers.

BIRDS.—Spare the birds in your orchards and gardens—they are your best friends—they “pay their rent,” not only in music and in the delight which they afford the eye and the heart, but also in the destruction of myriads of rapacious insects. As a further protection against predatory insects, hang up a number of wide-mouthed bottles, half filled with molasses water, in your trees—you will catch a great number of them.—*Ex.*

Manufactures, Mechanics, etc.

Recent American Inventions.

AMERICAN ARTS—A SPLENDID CLOCK.

OUR ingenious and skillful mechanics are getting great honor to themselves and to our country, by the character of their workmanship and their original inventions. Among the more noticeable examples of this is a splendid clock, by H. Sperry & Co., for St. George's church in this city, which is one of the finest and one of the largest ever constructed. It is designed to carry two hands for each of the three dials, on each of the two towers of that beautiful church. Some of these dials will be 70 feet from the clock. In describing it, the *Scientific American* says:

"The clock is not nearly as large in frame as the mammoth clock by Mr. Dent, in the new Houses of Parliament, London, but several of its principal parts are larger, and the mechanism, which is of the simplest possible kind, is far superior in both material and workmanship. The works of the London clock are of iron, cast with the teeth; those in this are of the best composition metal, cut by machinery in the most scientific form. The powerful first motion wheels of the former are 27 inches in diameter—of the latter 28 inches. The pendulum of the former is 15 feet in length—of the latter, 21 feet.

The escapement of this clock is of the form known as the pin-wheel, one of the dead beat styles. The pallets are mounted with agate. This is the same general style with which this firm have been so successful in their clocks for depots, and other situations requiring very accurate indications of time. Several new features, however, have been introduced, specially adapting the mechanism to its increased size; and much admiration is elicited by the skill and exquisite beauty of the whole. All the work is mounted and finished in the highest style known."

The largest wheel is nearly three feet in diameter. The weights are suspended by wire ropes, apparently half an inch in diameter. A very novel arrangement of the machinery gives a "retaining motive power" of about twenty minutes, so that no time will be lost in winding it up. It attracts quite a course of those interested in such matters.

ELECTRICITY AS A WATCHMAN.

WE long ago gave a description of an electrical fire-alarm, in operation in Boston, which was commenced some five years since. It operates, we believe, quite to the satisfaction of the people. But we now find electricity applied to the use of private residences, as a security against burglars and fire.

It consists of a spring concealed in every door, window-shutter, or desk, to which it may be desired to apply it, which is so arranged that when any attempt at burglarious entry, or even at tampering with a lock is made, the electric circuit is completed, which causes an alarm-bell to ring. The circuit can be shut off at any time by turning a handle. This contrivance for giving an alarm of fire is constructed on the principle of Breguet's thermometer; when

the temperature of a room rises from any cause beyond a given limit—say one hundred and twenty degrees—the electric circuit will be completed and the alarm-bell will give instant notice.

PATENT BABY WALKER.



THE accompanying engraving presents a view, and the mode of application and arrangement of an improved baby walker, the invention of Joseph Thomas, of Brooklyn, N. Y., and patented March 17, 1857.

The apparatus consists of an iron frame supported on four standards having castors on their bottom ends, by which it may be moved in any direction at the will of the occupant, and having set screws—by which the height of the top of the

frame may be adjusted to suit the height of the child using it. To the iron frame is attached a soft, easy cushion, in the form of an annular ring, within which the child is placed, and to which it is secured by a belt or strap buckled around its waist to support or keep it from falling. The height of this cushion is regulated by the set screws in the standards, so as to bring it to the height of the child's waist, and also to bring the proper degree of weight upon the child's feet; and as the circular cushion is made soft and yielding, it will not inconvenience the child when brought in contact with it.

The design of the invention is to keep children quiet, assist them in learning to walk, keep their clothes clean, and keep them out of mischief generally, by attaching them (at an age when most troublesome) to an apparatus which is amusing, and at the same time assists them in a proper exercise of their limbs, and contributes to their health and strength.

The child being supported by the strap around its waist, and the apparatus being adjustable, it can be set so as to allow the child to bear more or less

weight upon its limbs, thereby avoiding all danger of making it bow-legged or otherwise injuring it. And as they are neat, cheap and useful, they will undoubtedly meet with an extensive sale. For any information or territorial rights, address C. A. DURGIN, 335 Broadway, New-York city.

FOR THE PLOUGH, THE LOOM, AND THE ANVIL.

FENN'S SELF-REGULATING WIND POWER.

HARTFORD, Trumbull Co., O., May 15, 1857.

GENTLEMEN:—Being one of those interested, in all that tends to lighten the burden of the Farmer, and who believes that every invention calculated to benefit him should be made public, in order that its merits may become generally known, I would take the liberty of calling your attention to the Rev. B. Fenn's self-regulating Wind Power, patented Jan. 1, 1856.

This power has been tested here, and has far exceeded the most sanguine expectations of its friends. It grinds corn as well as any mill, and for cheapness and durability, I think it can not be exceeded. It is completely self-regulating, easily stopped, no matter what the power of the wind may be; it is easily started, and regulates its own motion when in operation. It can be built at a very small cost, for grinding, and can be applied to pumping water, sawing fire-wood, and, in fact, to all purposes for which steam or water power could be used. All who have seen it in operation, without a single exception, have spoken out in favor of the invention, so far as I have heard.

After June 1st, 1857, Mr. Fenn will be prepared to make sale, to companies or individuals, of territorial and individual rights, to all who may be in want of one of the cheapest powers that can be had, and at a cost far below either steam or water power. For further information on this subject, please address James H. C. Johnson, Postmaster, Hartford, Trumbull Co., Ohio, who will promptly respond, giving every information as to Fenn's prices.

PERPETUAL MOTION.

Another exhibition of mechanical genius, the product of the skill of Mr. Willis, of New-Haven, Ct., is to be seen at the American Museum. There are four ingenious machines, apparently self-moving, and claimed to be also a perpetual motion. We have not personally examined them as yet, but our friend and neighbor, the *Scientific American*, says that they are well worthy of notice, as curious and ingenious mechanisms. At any rate, the visitor will see the museum, with its "happy family" and strange animals, and will not lose aught of the full value of his quarter.

Mr. Cyrus Putnam, of Hallowell, Me., has also invented what he considers to be a perpetual motion, with power enough to drive any amount of machinery. We hope his expectations are not too strong to bear a disappointment with safety.

OUACHITA COAL.—We have been favored with a pamphlet containing some interesting papers relating to the coal field on the upper Ouachita River, submitted to the Academy of Sciences of New-Orleans. Amongst the papers are

reports of analyses made by Prof. Riddell, and Ed. W. Kent, chemist, of the constituent elements of this coal, which shows a proportion of fixed carbon and combustible matters equal to the best of foreign and domestic coals. Should its supply prove as extensive as represented it will have the effect of liberating us from dependence for coal on the Ohio—which is noted for not consulting the convenience of either coal dealers or consumers—and go far towards creating a new era in the commerce and navigation of the lower Mississippi and Gulf of Mexico.—*N. O. Delta.*

THE ARTIFICIAL BREEDING OF FISH.

THIS valuable discovery of our French neighbors, in relation to the artificial production of fish, ought to receive general attention. It may be made an important item in our annual productions, and whether the profit and loss be included in manufactures or the arts, we being only a *junior*, have not quite settled. They are not “the product of the seas,” where our fisheries are technically classed, for every man may have them in an artificial pond in his own garden or even in his cellar. But our object now is only to introduce a statement, found in the *Hartford Times*, of the entire success of an experiment in fish-breeding by a gentleman of that city. It is as follows :

“During the past winter Mr. E. C. Kellogg has succeeded, without much trouble, in breeding trout in his cellar. He placed a box, with proper partitions, in the cellar, and put some sand, gravel and stones in the bottom. He then procured two trout, a male and female, and went through the process, which has proved successful in France, of pressing the spawn from the female and placing it in his box. He then filled the box with Connecticut river water, and kept a small stream constantly running through it. This was about seven weeks ago. He has now seventeen fine, lively young trout, from half an inch to an inch in length, and more in the process of hatching. By holding the eggs to the light, little fish can be seen in them distinctly. The old ones are kept in a tub, and are not allowed to range among the small fry. The little ones of a week old have all the characteristics of the old fish, and they will dart under a stone with great rapidity when the water is stirred up a little.

NEW-YORK CENTRAL RAILROAD.

THE master mechanic of the western division of this road, Mr. David Upton, has published a statement of the running expenses and cost of repairs on that important road for March, which presents the following facts: Fifty-eight engines, of which 51 are outside, and 7 inside connected, have run 115,646 miles with 8008 pints of oil, 990 lbs. of tallow, and 2433 lbs. of waste. The average mileage to a pint of oil was 14 $\frac{1}{2}$; the highest was 37·27, by the engine *Reliance*, which ran 2087 miles on freight at a cost of 52 cents a mile; the lowest was 4·57, by the engine *Stranger*, which ran 402 miles on freight, at a cost of 447-100 cents per mile. The total cost for repairs was \$4683·50 for labor, and \$5854·18 for stock; total, \$105,37·68, which speaks well for *good tools*. The average cost of repairs per mile was about 10 cents; the highest was \$84·98, on the engine *New-York*, which ran 500 miles on freight; the lowest was ·59 on the engine *North Star*, which ran 4004 miles on passenger trains. The highest mileage was 3780 miles by the engine No. 187. The total cost of service of engineers, firemen and wipers, of oil, tallow and waste, and of repairs, was \$187,37 40. The lowest total cost per mile run was 5·42 cents, on the en-

gine *Orleans*, inside connected, which ran 4004 miles on freight and passenger trains; the highest was 104.54 cents, on the engine *New-York*.

MANUFACTURE OF LIQUORS.

THE public have been often told of the adulterations of alcoholic liquors, but the knowledge of the facts does not seem to prevent their use. A new piece of testimony is recently brought out, by Dr. Hiram Cox, inspector of liquors at Cincinnati. Of 240 inspections, nine tenths of them were imitations, and a great proportion of them poisonous. Of brandies, not one gallon in a hundred is pure. Of wines, not one in a thousand. Whisky is adulterated with sulphuric acid, (oil of vitriol,) and contains not more than half its proper proportion of alcohol.

A NOVEL HORSE EXHIBITION.

OUR Western friends are discussing the expediency of a great IRON HORSE SHOW. It is proposed to construct a track of five miles in extent, with all the necessary buildings and fixtures, for the show of all the operations of a railroad, with its divers modes and apparatus. The idea is almost poetic, but it may prove quite a reality, and if real, a grand reality. The railway capital of this country now amounts to \$800,000,000, and its interests are intimately connected with almost every variety and form of industry, to a greater or less degree dependent on the railroad for their success.

As a facility for affording military defense, the iron cavalry would hold a very prominent position, and their movements would present a grand spectacle.

COMPARATIVE VALUE OF AMERICAN IRON.

THE importance of sound and tough axles for passenger cars and locomotives can not be overrated. The breaking of axles has caused some of the most serious and fatal accidents on record. The late very fatal occurrence on the Great Western Railway, was, in all probability, as shown in another column, due to this cause. Scrap iron is decidedly inferior to good native iron. Ames' very extensive works in Connecticut, devoted to the manufacture of locomotive tires and car axles, uses no metal but that direct from the Salisbury ore beds, smelted by charcoal fuel with a cold blast, and subsequently many times drawn out under the heaviest hammers and refiled. Such processes with our best American ores produce work far superior in strength and toughness to the best foreign brands, and absolutely free from the flaws and weak spots incident to the scrap iron blooms. The manufacture of such important forgings as car axles from the very finest iron, in the best known manner, is a point that should merit far more attention than it does; and we mention these works, and the processes therein, as the best with which we are personally familiar, but presume there are others in our country which conduct the work in the same way, and with the like superior results.—*Scientific American*.

ANTHRACITE COAL COKE.—Experiments have been recently made in France, which appear to have resulted in the preparation of an excellent coke for railroad purposes. It is prepared by admixture with pulverized bituminous coal, in the proportion four fifths anthracite to one fifth bituminous.

Recent Patents,

[ISSUED FROM THE U. S. PATENT OFFICE, FROM MARCH 24 TO APRIL 28, 1857]

AGRICULTURAL.

Harvester, Samuel C. Allen, Bristol, Pa.—Cutting Apparatus for Harvesters, Samuel Comfort, jr., Morrisville, Pa.—Reaping Machines, Geo. Esterly, Heart Prairie, Wis.—Harvester, Pells Many, Wadam's Grove, Ill.: Two patents, one a combination of the smooth elastic cap or sheath, connecting the divider with the main wing, with the reversed hook or bent projecting end of an automatic rake; and the other, the raising or lowering the finger bar of harvesters by means of the adjusting stanchion, in combination with the elastic shoe, &c.—Corn and Cob Mill, R. F. Maynard, Baltimore, Md.: two patents, one, covering the mode of securing the legs and the parts of the concave together; the other, the arrangement of the grinding teeth, so as break points and to form a series of interrupted screw threads, &c.—Gate-post attachment to field fences, J. G. Hunt, Cincinnati, O. A portable or permanent post, attached to a fence for hanging a gate.—Field fence, Samuel Rains, Lancaster Co., Va.; a fence without posts, &c.—Raking Device for Harvesters, Isaac H. Conklin, Rockford, Ill.; delivers the grain in sheaves.—Do., D. W. & H. A. Lafetra, Eatontown, N. J.—Threshing grain in the field, J. C. & T. G. Wilson, Cedar Hill, Tex.—Button for panel of fences, Wm. B. Burnett, Lyons, N. Y.—Hand Seed-planter, Thos. Crane, Fort Atkinson, Wis.—Same, John Decker, Sparta, N. J. Has two hoppers, and plants two kinds of seed at once.—Automatic Rakes, for Harvesters, Jona P. Green, and Israel Dodenhoff, Bloomington, Ill.—Hand Seed-planter, Plymour B. Green, Chicago, Ill.—Cotton Cultivator, John M. Hall, Warrenton, Ga., combination of wheel and adjustable hoes.—Securing the doors of Hay-presses, &c., Cornelius Martratt, New-Baltimore, N. Y.—Harrow, G. W. Tolhurst, Cleveland, O.—Harvester, J. C. & T. G. Wilson, Cedar Hill, Tex., mode of operating the reel.—Potato Digger, John Taggart, Roxbury, Ms.—Harvesting Machine, J. F. Barrett, North Granville, N. Y., combination of straight forward and back moving knife with oscillating or swivelling knife.—Binding grain, J. F. Barrett, North Granville, N. Y.—Seed Drill, Ezra Emmert, Franklin Grove, Ill.—Seed Planter, George M. Evans, Pittsburgh, Pa.—Harvester Frame, M. G. Hubbard, Penn Yan, N. Y.—Harvester, Isaiah Knauer, Valley Forge, Pa.—Churn, H. N. Mackey, Morgantown, Va., combination of oblique wings and double headed self acting pistons, passing through them.—Excavator, Samuel W. Soule, St. Louis, Mo.

METALLURGY.

Clinching Spikes, Horatio Bates, New-York.—Road Scraper, C. Blakeslee, Ashtabula, O.—Making Rivets, Richard H. Cole, St. Louis, Mo.—Forming Spiral Springs for chairs, sofas, &c., John T. Foster and Jacob Banta, Jersey City, N. J.; James H. Banta, Piermont, N. Y.—Road Scraper, G. W. Thomas, Wickford, R. I. Adjustable side scraper, in combination with the front release scraper, when so arranged as to throw the dirt inwardly towards the center of the road and in a crowning form, &c.—Wrench, E. Repley, Troy, N. Y.—Arranging and Operating Window Shutters, D. Rohan, Cincinnati, O. Designed as a substitute for the usual arrangements of the moveable large windows of stores, &c.—Gold Separator, E. L. Seymour, New-York.—Machine for cutting Fringes, Wm. J. Horstman, Philadelphia.—Printer's Composing Sticks, Daniel Winder, Cincinnati, O.—Iron Fences, Wm. S. Fuller, Millbury, Ms. The manner of connecting the pieces and rods together by means of the lugs and collars.—Cleaning castings, Henry R. Remsen, assignor to himself and W. J. Noyes, Albany, N. Y.—Folding Window Blinds, Sylvanus S. Clark, Manchester, N. H. A combination of the Venetian corded blind and the common frame blind.—Lifting Jack, John S. Chesnut, Philadelphia, Pa.—Do., Robert W. and Daniel Davis, Yellow-Springs, O.—Expansive Bit, Alex. Hall, New-York.—Door Spring,

Gilbert L. Barley, Portland, Me.—Combined Square, Metre and Bevel, Alex. McKenzie, Boston, Ms.—Molds for casting, Mortimer Nelson, New-York, casting Britannia and other metals, by backing up a thin metallic face with plaster.—Grinding Saws, Albert S. Nipps, Lower Merion, Pa.—Blacksmith's Butteris, Robert Kilmer, Newton, Pa.—Lock, Leger Diss, Ilion, N. Y.—Chronometric Lock, Amos Holbrook, Milford, Ms., and H. D. Fish, Hardwick, Ms.—Tempering Steel Plates, Henry A. Seymour, Bristol, Ct.

MANUFACTURE OF TEXTILES, ETC.

Felting Hat Bodies, William Fuzzard, Cambridgeport, Ms. This machine is designed to raise the nap by machinery.—Making Rope, Milton Wallwork, Hoosick Falls, N. Y. A new mode of construction of the stationary circle or ring, with which the rollers on the flyers run into contact, to produce the rotary motion, that gives the twist. The speed of the strandflyers can be varied at pleasure.—Paper ruling machines, C. L. Pond, Buffalo, N. Y.—Hemp Brakes, James Barkley, St. Louis, Mo.—Crossing the fibres of felt cloth, Thos. B. Butler, Norwalk, Ct.—Forming the brims of felt hats, W. A. Fenn, New-Milford, Ct.—Sewing Machine, W. H. Nettleton and Chas. Raymond, Bristol, Ct.—Drying and Pressing Paper, John North, Middletown, Ct., apparatus for cleaning the pressing cylinders, and heated plates or chests, for drying.—Bustles, Alexander Douglass, assignor to Douglass Sherwood, New-York, adjustable in size, to suit the wearer's pleasure.—Blocking hat bodies, Wm. A. Fenn, New-Milford, Ct.—Rope Machines, Harvey W. Fowler, Hoosick Falls, N. Y.—Hemp Brakes, Wade W. Hampton, Winchester, Va.—Carding Machine, Hiram Houghton, Somers, Ct.—Curling hair, Mark M. Lewis, Albany, N. Y.—Smoothing Iron, Galen B. McClain, Bath, Me.—Felting Hat bodies, H. L. Randall, Roxbury, Ct., movement of felting board, &c.—Winding conical bobbins, Clark Tompkins, Troy, N. Y.—Blank-book Index Cutter, George Hodgkinson, and T. F. Randolph, Cincinnati, O.—Brushes of Saw Cotton Gins, Edwin Keith, Bridgewater, Ms.—Cot Tubes, John Marland and Earlsworth Crockett, Lawrence, Ms., made of Gutta Percha.—Self-adjusting Sack-holder, Augustus Stoner, Mt. Joy, Pa.—Winding Wadding, Thomas Thompson, Niverville, N. Y.—Making paper bags, Benjamin F. Rice, assignor to Benjamin R. Smith, and Chas. H. Morgan, Clinton, Ms.

CHEMICAL PROCESSES.

Construction of a retort, Alfred Monnier, Camden, N. J.—India Rubber Hose for making tubes from strips of rubber, wound round a mandril, uniting the edges by pressure.—Treating Gutta Percha, Robert Haering, N. Y., by the use of pipe clay and sulphur, as set forth.—Coating metals with silver, Levi L. Hudson, New-York, by use of combination of cyanide of silver, grape sugar, essence of sassafras, clay and Paris white, or equivalents.—Improved Lubricator, Hiram Strait, Covington, Ky.—Purifying Oils, Halvor Halvorson, Cambridge, Mass., assignor to himself, Edward H. Baker, J. F. Atheara and W. Tracy Eustis, Boston, Mass.

CALORIFICS, GAS LIGHTS, LAMPS, ETC.

Lamp Burners, A. H. Knapp, Medford, Mass.—Hot Air Furnace, John H. Cahill, Philadelphia.—Gas Burner, E. P. Gleason, Providence, R. I.—Feeding fuel to Furnaces, James Hemington, Richmond, Ind.—Lime Kiln, Wm. Robinson, Baltimore, Md.—Closing Gas Retorts, N. Aubin, Albany, N. Y.—Cask Heaters, Simeon Burgess, Wayne, Pa.—Chimney Dampers, Augustine Campbell, Philadelphia.—Gas Regulator, Robert Cornelius, Philadelphia.—Lime Kiln, Aaron Jeffries, Alleghany Co., Pa.—Burner of Burning-fluid Lamps, Chas. A. Green, Philadelphia, Pa.—Tea Kettle, Jas. Greenhalgh, Waterford, Ms. A wire from cover to handle, controls the position of the cover.—Portable apparatus for gas, S. O. Halsey, Essex Co., N. Y.—Cooking Stove, Thomas King, West Chester, N. Y., a circular stove surrounded by hot air flues, with registers and dampers for regulating the fire.—Argand Gas Burner, C. H. Johnson, assignor to himself and J. G. Hamblin, Boston, Ms.

STEAM ENGINES, ETC.

Steam Boiler, Smith Baldwin of St. Louis, Mo. An inside and outside cy

der, with water pipes so arranged as to give a large heating surface, covered with a thin stratum of water, &c.—Steam Boiler, Nelson Johnson, Jasper, N. Y.—To prevent incrustations on boilers, Robert McCafferty, Lancaster, Pa.—Traps for relieving steam-pipes of water, John Avery, jr., Lowell, Ms.—Ports in Steam Cylinders, Bowen Eaton, Roanoke, Ind.

NAVIGATION AND MARITIME IMPLEMENTS.

Reefing Sails, Washington F. Davis, Winthrop, Mass.—Hawse holes for vessels, &c., J. C. Osgood, Troy, N. Y.—Ships' steering apparatus, S. N. Smith, New-York, a new mode of applying the brake, and dispensing with a swivel.—Propeller, Robert Griffiths, London, Eng.—Reefing Ships' Sails, James Emerson, Worcester, Ms.—Reefing Sails, Francis C. La Croix, and Chauncey Barnes, New-York, by means of tackles, both ends of the falls being secured to the yard.—Cable Springs, Wm. Wilcox, E. Hartford, Ct.—Sails and Rigging of Vessels, Geo. T. May, Tompkinsville, N. Y.—Anchor Tripper, John B. Holmes, assignor to himself and John R. Pratt, New-York.—Submerged propelling wheels, Thos. Kendall, jr., San Francisco, Cal.

CIVIL ENGINEERING AND ARCHITECTURE.

Hoisting Winches, Joel Bryant, Brooklyn, N. Y. A new combination of windlass and pulleys, &c.—Level, or Inclinator, Thos. A. Chandler, Rockford, Ill.—Hoisting Bucket for coal, &c., Geo. Focht, Reading, Pa.—Vault covers, Geo. R. Jackson, Rye, N. Y., glasses of pyramidal or polygonal form for producing a wider diffusion of light.—Ventillating Vaults, Geo. R. Jackson, Rye, N. Y., connecting the aforesaid elevated recesses in the ceilings of subterranean apartments, with ventillating lamp posts, or with the flues of a building—Attaching bolting cloths to reels, John Woodville, Chillicothe, O.

LAND CONVEYANCE.

Arrangement of Carriage Springs, R. P. March, Jeffersonville, Pa.—Railroad Car Brake, R. M. Wade, Wadesville, Va.—Car Lock, Henry Ritchie, assignor to himself, Samuel C. Thompson, and Geo. W. Westerfield, Newark, N. J.—A lock designed for baggage and freight cars, self locking, with spring jaws, tumblers and a sliding plate.—Railroad Car Brake, R. R. Smith, Philadelphia.—Attaching Hubs to axles, Lorenzo Winslow, Rochester, N. Y., attaching the box by means of a ring and pin.—Dumping Railroad Cars, Wm. Peirce and John Lowrie, Piedmont, Va., by a rocking track and other appropriate arrangements.—Railroad chair machine, Corydon Winch, Jersey City, N. J.

HYDRAULICS AND PNEUMATICS, WATER AND WINDWHEELS, &c.

Current and Paddle Wheels, James H. Hunchett, Beloit, Wis.—Attaching buckets to water wheels, J. R. Howell, Alexandria, Va.—Current Water Wheel, Thos. Stamp, Wetumpka, Ala. So as to raise and lower it.—Street Sprinkler, C. O. Luce, Brandon, Vt. The water is thrown from horizontal wheels, by centrifugal force.—Windmill, Rubus Nutting, Randolph, Vt.—Rotary Pump, Richard Gilbert, Rochester, N. Y.—Liquid Metre, Otto G. Leopold, Cincinnati, O.—Working Pumps, Wm. Wright, Hartford, Ct.—Filtering Liquids, Benjamin N. De Buffon, Paris, France.—Waste way in Faucets, James E. Boyle, Richmond, Va.—Hydrant, Abraham Hoagland, Jersey City, N. J.—Fluid Metre, S. J. Burr, assignor to himself and H. F. Read, Brooklyn, N. Y.—Atmospheric Pump, Levi Keller, Catawissa, Pa.

LUMBER AND MACHINES FOR WORKING IT.

Shingle Machine, John L. Brown, Indianapolis, Ind. A self-feeding machine.—Baskets, Joel A. N. Ellis, Springfield, Vt.—Cylindrical Boxes, H. S. Smith, E. Hanson, and M. S. Richardson, Rutland, Vt. An invention for cutting out the boxes directly from the bolt or plank, and, sawing it off, the exterior and interior surfaces and the rim being finished at one operation.—Splitting Hoop-poles, Joseph and Sylvester Sawyer, assignors to American Hoop Machine Co., Fitchburg, Ms.—Boring Machine, Jonas Bosenburg, Cherryville, N. Y.—Sawing Shingles, Jonathan Creager, Cincinnati, O.—Machine for Splitting Wood, Wm.

L. Williams, New-York.—Ox Yoke, Isaac K. Bennett, Narrows, Pa.—Cutting Veneers, Gilbert Bishop, New-York. A knife in sections, each having alternate smooth and toothed cutting edges, attached together.—Awl Haft, Nathan S. Clement, Worcester, Ms. A chamber for spare awls, in the same end with the gripping jaws.—Saw Set, Oliver B. Judd, Little Falls, N. Y.—Shingle Machine, G. H. Mallory, New-York.—Spoke Shave, Manly Packard, W. Bridgewater, Ms.—Sawing Machine, H. F. Parmort, Saginaw City, Mich.—Stave Machine, Henry L. McNish, assignor to himself and D. C. Butler, Lowell, Ms. Guides and connections for adjusting the side cutters, &c.—Morticing Stiles for Blind Slat, E. T. Drake, Leominster, Ms.—Saw Gummer, Oliver B. Judd, Little Falls, N. Y.—Revolving Last Holder, Benjamin Marshall, Philadelphia.—Tenoning Blind Slat, Lafayette Stevens, Elmira, N. Y.—Setting Head Blocks of Sawmills, Ira Robbins, Unityville, Pa.—Planing Hoops, Thaddeus S. Scoville, Elmira, N. Y.—Reversing the Chisels of Mortising Machines, Moses Marshall, assignor to himself and Russell Dyar, Lowell, Mass.—Guage for Casks, John W. Cochran, New-York.—Splitting Wood, Waterman L. Ormsby, Jersey City, N. J.

LEATHER, TANNING, ETC.

Tanning Hides, D. H. Kennedy, New-Alexandria, Pa. A new mixture for tanning liquor.—Boot and Shoe Heels, Stephen Oliver, jr., Lynn, Ms., by a mould, with a gutta percha body, a tenon, concave upper surface and a bottom of leather or its equivalent.—Boot trees, Wm. R. Willmott, assignor to himself and Henry F. Gardner, Boston, Ms.—Harness Saddles, Palmer Shaw, Syracuse, N. Y. Mode of making the tree, chiefly of the leather cantle piece, etc.—Raw Hide Whip, Chas. Baeder, Brooklyn, constructed without a core of filler and giving the wrappers a slight twist.

HOUSEHOLD IMPLEMENTS.

Window Curtain Fixtures, Ransom Ballou, jr., and Benjamin F. Hooper, Albany, N. Y.—Treating Moss, Samuel Barker, New-York. A mode of preparing moss as a substitute for curled hair, in mattresses, &c.—Window curtain fixtures, Purches Miles, Hartford, Ct.—Paring Apples, J. J. Parker, Marietta, O.—Fixtures for curtain rollers, C. H. Wheeler, Boston, Ms.—Invalid Chair, Ransom Wetherell, Huntington, Ms.—Washing machine, Thos. A. Dugdale, Richmond, Ind.—Wardrobe or Bureau Bedstead, J. S. McCurdy, New-York.—Curtain Fixtures, C. H. Wheeler, Boston, Ms., fastening the curtain to the roller, by a rod, placed in a groove.—Washing Machine, J. F. Pond, Cleveland, O., and C. L. Pond, Buffalo, N. Y.—Washing Machine, Josiah Mayes, Cohoes, N. Y.—Same, Henry D. Young, Junius, N. Y.

ARTS, ORNAMENTAL, ETC.

Exhibiting Stereoscopic Pictures, Alexander Beckers, New-York. A mode of arranging photographic pictures in an endless belt, at right angles to it, thereby exhibiting a large number within a small space.—Photographic Tray, D. J. Kellogg, Rochester, N. Y.—Soundboards for Pianofortes, Joseph Newman, Baltimore, Md.—Strings for Musical Instruments, Wm. Randle, Florida, N. Y. Springs attached to each string.—Engraved-plate Printing Press, M. C. Gritzner, assignor to M. J. Gritzner, Washington, D. C.—Flutes, John Pfaff, Philadelphia, placing the mouthpiece at right angles or thereabouts, to the stem or body.—Watches, G. P. Reed, Waltham, Ms.—Portemonnaies, D. C. Smith, Tecumseh.—Shirt Studs, Dute Wilcox, Providence, R. I.—Photographic Bath, John H. Morrow, assignor to himself and Edward Bennett, Baltimore, Md.—Constructing Locketts, etc., C. G. Bloomer, Wickford, R. I.—Gilding and Ornamenting Steel and other Metals, A. H. Dufresne, Paris, France.—Action for Grand Pianofortes, D. F. Haasz, Philadelphia.—Engraving Watch Cases, &c. C. H. Field, Providence, R. I.—Photographic Pictures, Engravings, etc., G. D. Humphrey, New-York.—Photographic Baths and Pans, George Mathiot, Washington, D. C.—Constructing letters for Signs, &c., Thos. Motley, Brooklyn, N. Y.

FIRE-ARMS.

Chambered Breech Fire-arms, James Kerr, London, Eng.—Revolving Fire-

arms, Josiah Ells, Pittsburgh, Pa. Fire-arms. G. A. Blitkowski, New-York.—Bomb Lance, Rufus Sibley, Greenville, Ct.

MEDICAL INSTRUMENTS, ETC.

Veterinary Syringes, Wm. Somerville, Buffalo, N. Y. A syringe, provided with a spring and catch.—Inhaling medicinal agents, Alonzo G. Hull, New-York.—Dental Forceps, J. A. McLelland, Louisville, Ky.

MISCELLANEOUS.

Arrangement of Staging Brackets, Jos. B. Latham, Phenixville, Ct.—Smut Machine, Israel Kepler, Milton, Pa.—Trimming Jack, G. J. Olendorf, E. R. Tripp, Middlefield, N. Y., and Samuel Harper, Cooperstown, N. Y.—Cooler for Wine, Beer, etc., in barrels, John F. Burgin, Northumberland, Pa.—School Slates, Samuel R. Burnell, New-York.—Table Manna, Merano Butterfield, Indianapolis, Ind. A substitute for honey, made from white sugar treated with sulphate of alumina and potassa.—Molasses Cups, D. W. Messer, Boston, Mass. Ice-breaking Boats, Zachariah Oram, Camden, N. J. A series of pointed plungers, operating vertically and in a line with each other.—Releasing doors of cotton presses, G. W. Penniston, North Vernon, Ind.—Artesian Wells, Jesse N. Bolles, assignor to M. W. Bolles, Philadelphia, mode of discharging the detritus, at the surface, at every stroke of the drill.—Winding Machinery for mines, Edmund M. Ivens, assignor to himself and Lucien H. Allen, Tamiqua, Pa.—Excluding air from liquors on tap, Absalom F. Boyd, Muskingum, O. A bag attached to a cask or barrel.—Messenger Shackle Blocks, Geo. Gilmour, Chelsea, Mass.—Bathing Apparatus, Lewis H. Lefebore, New-Orleans.—Forming Clay Pipes, C. P. S. Wardwell, Lake Village, N. H.—Grinding Mill, Ezra Ripley, Troy, N. Y.—Oil Can, Hiram Wells, Florence, Ms.—Brick Machine, G. J. Washburn, and E. H. Bellows, assignors to themselves and C. Washburn, Worcester, Mass.—Sidewalk Pavement, J. B. Cornell, New-York.—Inkstand, Kingston Goddard, Philadelphia. Application of a bent tube to a common ink bottle.—Oil Press Boxes, Wm. W. Marsh, Jacksonville, Ill.—Paint Canisters, J. W. Masury, Brooklyn, N. Y.—Skates, John A. Winslow, Roxbury, Ms. A second metal runner.

FOR THE PLOUGH, THE LOOM, AND THE ANVIL.

ANSWER TO MECHANICAL PROBLEM.

NEW-YORK, May 25, 1857.

MESSRS. PLOUGH, LOOM AND ANVIL:—Your correspondent P. W. F. C., says: "The resistance to each boat being the same, and the *forces* applied to overcome that resistance *being equal*, both boats will reach the shore at the same time." If I understand the problem as presented by W., that is taking for granted the very point at issue, whether one man *is equal* to two. It might be stated thus, In bringing two objects together by means of a line, can power be successfully applied to each end of the line? In other words, with a proper apparatus to transmit or apply the power, would it make any difference in point of time, in bringing two objects together, whether the power was at one end of the line, or divided, and placed at each end of the line? The question of *convenience* does not come in; only the question of *fact*. It is very easily demonstrated with a proper apparatus that there would be no difference. If either of your correspondents are mechanics, I think they can easily devise many ways by which that result can be proved. If not, I promise to devise one for them. In the meantime let us view the same idea in another light. Two boats are on opposite shores, with a man in each boat, having a line to a post standing in the middle of a pond. Both men are pulling to bring their respective boats up to the post

—or to the middle of the pond. The boats have a certain velocity imparted to them. Would that velocity be changed were the two lines detached from the post and fastened to each other? I need not add that in all suppositions of this kind we must suppose the *power* and its *action*, and everything connected with it, *perfect*. So that it would be no answer to say that the two men had a better *chance*, or could expend their strength to better advantage when pulling against the *post* than when pulling against *each other*. The simple idea is this, with the lines attached to the post the boats were approaching each other by the power of *two* men, and with the velocity two men were able to give them. When the lines are detached from the post and fastened to each other, is the power reduced to *one* man, and is the velocity of the boat no greater than if one of the men was a post?

G. W.

VENERABLE.—The famous Stuyvesant pear tree, more than 200 years old, was in full blossom last week, or say about the 16th inst.

Recent Foreign Inventions.

IRON AND STEEL MANUFACTURE.

MR. BESSEMER seems resolved to make the best possible use of his process for keeping iron melted without fuel. He last month filed specifications of other two new patents for further improvements. He states that by the ordinary puddling process of reverberating flame and gaseous matter from mineral coal on to the molten or semi-molten metal, the iron is injured, at great cost; and the object of his first patent is to sustain, without ordinary fuel, the heat requisite during a process producing the effect of puddling, or during puddling itself, by forcing into and amongst the iron particles, through jet pipes of fire-clay, or iron, jets of air or other gaseous or gaseous with pulverulent matter, containing sufficient oxygen to keep up the heat of the metal, so as to admit of the puddling or other processes producing the same effect. The second patent claims the obtainment of crude or gray pig-iron, hard white iron, or steel, and malleable iron, direct from carbonaceous iron ores, or from any mixtures of carbonaceous ores with oxides or other ores of iron by the application thereto of a blast of hot or cold air, or steam, or of any other gaseous matter containing oxygen or hydrogen, and without requiring any fuel except such as is evolved from the said ores of iron, and from the gaseous matter forced in. It is rather a curious circumstance in reference to the essential principle of all Mr. Bessemer's processes, namely, the dispensing with ordinary fuel in his melting processes, that an old author, who wrote before Mr. Bessemer, could have ever dreamt of his new processes, in a work treating of the Japanese and their inventions, is said to have stated that they had one "for melting iron without using any fire, casting it into a ton, done about on the inside with about a half foot of earth, where they keep it with continual blowing, and take it out by ladles full, to give it what form they please, much better, and more artificially than the inhabitants of Leige are able to do. So that it may be said Japan may live without its neighbors, as being well furnished with all things requisite to life." There is scarcely any *new* invention of mark or moment, of which traces have not existed in the East from time immemorial. Such was the case with the screw propeller, with gas, with the compass, and many other inventions and discoveries; and new instances are ever and anon turning up, as was lately the case with the screw auger and the Bramah lock. If the Japanese (a sort of insular Chinese) do really practice this new process of Mr. Bessemer's, depend on it "there is something in it," however much it may as yet be involved in difficulties.—*London Builder*.

HARDENING AND COLORING SOFT STONE.

Gypsum and other soft stones, it is discovered in England, may be hardened so as to be suited for architectural purposes. The following process is secured by a recent patent. The process is thus described :

"Alabaster and other kinds of gypsum and calcarous stones and earths are exposed to a heat of about 212° Fah., in order to expel and drive off therefrom the watery particles contained in it. The time during which the gypsum must be exposed will vary with the nature of the material, but experience will soon dictate the precise time to the operator. When sufficiently dried, or when the aqueous particles have been driven off, the gypsum is plunged several times in succession in clear water at the temperature of the atmosphere, or in any other suitable hardening liquid, or substance, or composition, reduced to a liquid state, and when the operator finds, by experience, that the plunging has been continued for a sufficient length of time, the gypsum is withdrawn, and exposed to the atmosphere to complete the hardening process, which requires from five to thirty days, more or less, after which the gypsum is in a fit state to be polished and treated, in all respects, in a manner similar to marble, which it will be found very much to resemble. In fact, by operating upon gypsum in the manner described, an artificial marble is produced. In order to color the gypsum, any suitable coloring material may be mixed with the water in which it is plunged, after the drying process, but the colors most preferred are those produced from minerals reduced to a state of solution, some of which (as, for example, sulphates of iron and copper) not only impart color to the material, but also harden it additionally. The method of hardening and coloring, hereinbefore described with reference to gypsum, may also be applied to all calcarous stones and earths."

MANUFACTURE OF BEET-ROOT SPIRIT.

The following is the description of the process used on the beet-root farm of Messrs. Dray & Co., at Farmingham, near Dartford, Kent. It is taken from Chamber's Journal. To three quarters of a ton of beets, which are sliced lengthwise by machinery, in an hour, 300 gallons of wort prepared by maceration of beets to start with, are poured on, a quart of sulphuric acid is added, and at the end of twenty-four hours, the slices are ready for distillation. Placed in iron cylinders, divided into compartments, each compartment is drawn upon successively, so that there is a continuous flow of spirit until the end of the process. The spirit is said to resemble small-still whiskey, and under proper treatment becomes a neutral spirit, useful for many industrial purposes.

GASWORKS.—A return has been published of all gasworks established by Act of Parliament in England and Wales, with various particulars, such as the charge per foot, the average quantity of gas evolved from a ton of coal, the illuminating power, and the cost. The London Gaslight and Coke Company charges from 4s. to 4s. 6d. per 1,000 cubic feet (Newcastle coals), and 6s. for cannel gas. The average quantity evolved is 9,000 cubic feet from Newcastle, and 10,000 feet from cannel coals. Five feet of Newcastle gas is equal to twelve candles, and five feet of cannel gas equal to twenty-six candles. The Imperial Gaslight and Coke Company charges 4s. 6d. per 1,000 feet, and produces 9,518 feet of gas from one ton of coal. The quantity of gas evolved in London varies from 8,500 to 10,000 feet from one ton of coal, and the illuminating power from 12 to 14.2 candles. The Phoenix Company uses Newcastle and cannel coals mixed.—*Ex.*

CLEANING FLAX.—Macbride's scutching machine cleans more than 500 lbs. of fibre in ten hours, and when driven to the utmost will turn out more than 900 lbs.

WOOD FIRE PROOF.—A patent has been secured for accomplishing this, by steeping the planks in a solution of phosphate of ammonia, and subjecting them afterwards to heat.

HARDENING CANDLES.—Mr. F. Capiécian of London, has effected the following improved process of hardening candles, when the tallow is melted in the kettle, about one seven-thousandth of its quantity by weight of the acetate of lead is added, and well stirred among the whole for fifteen minutes. The heat is then lowered, but the tallow is still retained in a liquid state, about one thousandth part by weight of turpentine and a little of any of the perfumed resins are then thrown in, and well stirred until the whole are thoroughly incorporated together; this requires about two hours, one hour for stirring and one hour of rest for the uncombined impurities to settle to the bottom. The acetate of lead is supposed to have a tendency to harden the tallow, and the composition is much superior for candles than when treated in the ordinary way.

SANITARY IMPROVEMENT—SEWERAGE OF LARGE CITIES.

THE methods in general use for disposing of this matter are objectionable in several respects, as they are injurious to health and comfort, as they pollute our rivers, and as large quantities of fertilizing matter are thereby wasted. To obviate more or less of these objections to the methods in common use, is a problem which has occupied the ingenuity of many minds, and which has led to the proposal of several methods.

At length one of the various plans proposed has been adopted and put into operation in the city of Leicester, England—a town of 65,000 inhabitants, and full of manufactories. The works for purifying and utilizing the sewage of this city, have been in operation since May, 1855. Since that period the works have been in constant operation night and day, and in the course of 19 months have separated about 6,000 tons of solid matter from 7,500,000 tons of sewage water, discharging only pure water into the adjoining river, which would otherwise have been contaminated by so many tons of impurity. The sewage is conveyed to a spot less than a mile distant from the town of L., and there as rapidly as it arrives, and scarcely allowing time for incipient putrefaction, it is intimately mixed with a body of lime and water, which produces an instantaneous and perfect deodorization. It is then filtered, and both, the fluid passing off, and the solid matter retained, are perfectly scentless. The filter system admits of no communication whatever with the atmosphere at any stage of the operation, until the deposit is withdrawn from it in the form of flat, firm slabs, forty inches square and three inches thick. Several thousand tons of this half-dry deposit heaped up in the yard of the Leicester works at one time, emitted no smell whatever. They are said to be as unobjectionable as unburnt bricks.

The fact that a plan of this kind has been found to work satisfactorily, is one of much importance, not so much on account of the fertilizing matter which may thus be saved from utter loss and waste, as on account of the improvement which may be thereby effected in the health and comfort of the inhabitants of cities, in which that or some similar plan may be adopted. This consideration—that the health and lives of the population of cities are dependent in a great degree on the mode in which the sewage is disposed of—is of a higher order than the financial one. Still the saving of the nitrogenous matter of a large city is of no small importance, as at present prices of guano, there is a waste of

such matter alone, saying nothing of phosphatic and saline materials, equal to about, or a little over one dollar a year for each inhabitant.

That the plan of rapidly removing, deodorizing and purifying the sewage of Leicester, has been accompanied with a decrease of disease and death, is a fact which is established by the tables of mortality,—the decrease in the number of deaths amounting to 275 yearly, in a population of 65,000.

To aid in bringing about a similar result in any of our large cities, seems to be an object worthy of any man's ambition; and to have accomplished such a result, must be to any city government or population, a just source of pride and gratifying reflections.—*Country Gentleman*.

THE ARITHMOMETER.

THE attention of the learned world is now engrossed says the *Independence Belge*, by a new invention, which promises to be of universal usefulness. Mr. Thomas, of Colmar, after thirty years of hard study and assiduous labor, has at last solved the problem of calculation by mechanism. His machine, which he has called "Arithmometer," is applicable to the mechanical solution of all arithmetical operations, from the simplest to the most complicated ones. His instrument solves, with infallible correctness, not only the four rules—addition, subtraction, multiplication, and division—but also ascertains the powers of quantities, extracts the roots of numbers, resolves triangles, reduces ordinary and decimal fractions, and defines the rules of proportion, etc. Its rapidity of execution is such as to defy the ablest calculators. A multiplication of eight numbers with eight numbers is executed in eight seconds; a division of sixteen cyphers through eight cyphers in twenty-four seconds. The machinery is so simple that after the expiration of five minutes of instruction, anybody can calculate with rapidity and correctness. The "Arithmometer" is placed in a small, light box, which can be easily carried in a pocket, and is so constructed that its mechanism can scarcely ever be deranged.

COLORING HORN.

Good imitations of tortoise-shell are obtained, in France, by the following process. The horn is prepared by being soaked in dilute nitric acid, consisting of one part acid and three parts water, at a temperature of 88 to 100 degrees. It is then treated with a mixture of one part of fresh burnt lime, two parts of carbonate of soda, and one part of white lead, from ten to fifteen minutes only, so that the spots may assume a yellowish brown tint, and not a dark brown.

The horn is then washed in water and wiped dry with a cloth and introduced into a cold bath, made of Brazil wood and caustic soda. As soon as the color is properly developed, it is removed, washed with water, carefully pressed between cloths, laid aside for twelve to sixteen hours, and then polished.

The decoction of dye wood may be made by boiling one pound of Brazil wood in two or three quarts of water; caustic soda may be obtained of any soap boilers. By adding a little oxide of zinc to the white lead employed as a mordant, blueish-red shades will be obtained. Salts of tin give scarlet tints. Still finer tints are given by the use of cochineal.

MAPLE SUGAR IN VERMONT.—The crop of sugar this year is estimated as high as 16,000,000 lbs., or about half the entire crop of the country in 1850. One school district in Pomfret reports (eight farms chiefly) 13,000 lbs. Edward Crane, of Westfield, made 216 lbs. from 57 trees, or 5 $\frac{3}{4}$ lbs. per tree. Jasy makes 18,000 lbs. Danby 75,000 lbs.

Scientific.

CHEMISTRY FOR THE MILLION.

We desire our young readers and others who will join them in the perusal and study of these articles, to consider, that a few of the first in the series, must of necessity be employed mainly in dry definitions and in the explanation of principles uninteresting, except so far as they aid in comprehending what is to follow. Do not be discouraged by this fact. The A B C must come first; and it is a dry study, we confess; but the spelling, the reading, the discoursing on matters of intense interest and of grave importance shall follow soon.

Oxygen exists in a gaseous state in the atmosphere, of which it constitutes about 21 parts in a hundred. Combined with hydrogen it becomes liquid, constituting 8 parts in 9 of water, which is equal to 88 8-9 per cent. of oxygen to 11 1-9 per cent. of hydrogen. As a solid, oxygen enters into almost all substances with which we are familiar. With few exceptions, it constitutes a part, either as a gas, a liquid, or a solid, of all known matter; as for example, 21 per cent. of pure air; 88 8-9 per cent. of pure water; and a large per cent. of rocks, soils, fruits, crops, everything that we eat, drink, wear, or see around us. It is supposed to constitute not far from one half of all known matter. Its weight is a trifle greater than that of common air. Its appearance, so far as the eye can detect, is precisely the same.

Put a handful of green leaves in a tumbler, fill it with water, and expose it, inverted over a bowl of water, to the sun; and shortly a few bubbles escape from the leaves and fill the upper part of the tumbler with air, as one would judge by its appearance, but really with pure oxygen gas. If you were to put a burning taper into it, it would burn with increased brilliancy. If you put into it the heated end of an iron wire, it will burn, as readily as a candlewick in the air. If one were to breathe it in large quantities, it would first exhilarate, then exhaust, and finally destroy life. Oxygen not only pervades all things, constituting, as before said, about one half of the globe and all things on it; but it is an exceedingly active element, inclined to meddle with nearly every thing else, and to work changes in other things.

Thus, if you heat a piece of wood above a certain temperature, oxygen will enter into it and set it on fire; *it is the great supporter of combustion*. If you leave a tumbler of cider exposed to the air, oxygen will enter into it, and turn it to vinegar; *it is the great acidifying (souring) principle in nature*. Leave a piece of flesh, or vegetable matter, long exposed, and the one will putrify and the other decay; *oxygen is the cause of all putrefaction and decay*. A copper penny turns gray; oxygen has been busy with it, has combined with its surface and formed an oxid (rust) of copper, and this compound is always of a different color from the copper itself; or if you leave a piece of polished iron exposed, oxygen will enter into it and form a brown rust, oxid of iron; *it is the oxidiser of the metals*, that is, it attacks and oxidises, or rusts, all metals, except, it may be, gold and platinum. No fuel would burn, no liquid would turn to vinegar, no meat would putrify, no vegetable would decay, no metal would rust, if it were not for oxygen. It seems to be the great, universally-active, everywhere-busy agent in nature, always working good, and working mischief, whenever there is an opportunity.

Let us look at some of the good. *It is the supporter of respiration*; none of us could draw a breath without it, nor live more than a few minutes. As the supporter of combustion, it enables us to kindle our fires for warming, for culinary purposes

and for manufacturing. As the oxidifying principle, it affords us pleasant tarts, whether in the form of agreeable fruits or of manufactured articles, pies, tarts, &c. As the cause of putrefaction and decay, it enables us to turn animal and vegetable matters, when useless for other purpose, into fertilizers, and thus into vegetables and flesh suitable for food.

But full of good works as it is, it is mischievous also;—though it preserves life, it would destroy it, if we breathe too much of it. Though it kindles our fires, it burns down our houses, if we let it get the advantage of us. A burning city would extinguish itself in an instant if you could get the oxygen away from it. While oxygen helps to transform all decaying matters into fertilizers and then into new and useful products, it is always at work upon those which we already have. For instance, your meat spoils; it was the oxygen, either in the meat or in the air, or in both, that did the mischief. If you cut or bruise your flesh, oxygen instantly attacks the wound; attempts putrefaction; effects it, in a small degree, that is, it causes if the air is not excluded, a dead scab, something that will not live again, but is to be sloughed off, leaving the flesh less disposed to heal than before it was formed. The best way to prevent oxygen from attacking a fresh wound and working mischief, is to wash it with water at a temperature most agreeable to the feeling, and then to cover it with many thicknesses of linen or cotton cloth saturated with tepid water, applying more water from time to time so as to keep it moist. If the water is cold, no matter, for it will soon become warm, and will raise a perspiration which is the best possible preventive of taking cold in the wound. The philosophy of this cure, is, that the wet cloths exclude the air and with it the oxygen, while the perspiration caused by the tepid water (it will soon become tepid, if applied cold) throws off all impurities of the wounded tissue, thus leaving no obstacle to the healing process, which nature, so to speak, always carries on rapidly, if unhindered by the admission of air, by a drenching with rum, or some other foolish application. Rum, by the way, is not a bad application, provided it consists mostly of water, and is not drugged with sulphuric acid, as too often happens these days. We would say, the more water the better for this purpose, and perhaps for some other purposes, certainly for that of making money by selling it per glass. The reason of so many thinking well of rum for a fresh wound, is, that they ascribe to the alcohol what is due to the water in it. The water cures in spite of the alcohol. But it must be conceded, that even pure alcohol would not be quite as bad for a fresh wound, as hot embers; and so we will return to our appropriate subject.

The facts which we would like to have retained by those who follow our off-hand, but, we hope, useful instructions are these;—oxygen in its pure, uncombined state, is a limped, colorless, inodorous gas; it is a sort of omnipresent, ever-working agent, seeking combinations with almost everything, either to build up and preserve or to tear down and destroy; in combination with some substances, it is still a gas, going at large and unseen in the air; in combination with others, it is a liquid, as in water; with others still, it is a solid, as in iron rust and copper rust, or the oxids of copper and iron; it is the supporter of respiration, as no animal can breathe without it; it is the supporter of combustion, all fires living only so long as fed by it; it is the great acidifying principle, vinegar, sour fruits, nearly all acids owing their acidity to it; is the active agent in all cases of putrefaction and decay; with the exception of the precious metals and a very few other substances, it enters into and forms a part of all known bodies; and to the student of nature's laws it is more important to be understood than any other one element, since it pervades all things and is ever effecting changes in nearly all.—ED.

FOR THE PLOUGH, THE LOOM, AND THE ANVIL.

ELECTRICAL RODS.

THE following theory from a friend at Westport, Mobile, for accounting for the strange phenomenon to which it relates, is certainly ingenious. Whether it is founded on truth, we leave others to decide.

DEAR EDITOR :—I became satisfied by many experiments, that the attraction between the underground streams and these rods was electrical, and shall run the risk of being thought "to know the least about it," and attempt an explanation, nevertheless.

The electricity necessary to carry on the vast amount of evaporation from the surface of water when compared with that from the earth, causes all water-courses and the ocean to be what is called negatively charged, that is, to contain less than the average or equilibration portion of electric fluid. All water-courses, underground as well as open, are continuous conductors from the ocean, and are all negatively charged as in the ocean, as a matter of course. So underground streams are, or may be said to be, all negatives.

The earth above these streams, are as the Leyden jar, the stream below as the inner coating, the surface of the ground and the things near it, are as the outer coating. Between this outer coating and the inner, electric attraction takes place so strong in some instances in the Leyden jar, as to perforate the glass! It may hence be easily seen how an attraction of very sensible results might be established at the top of a rod, upon a leverage of say two or three hundred to one in favor of the attraction.

If it be established that some people *can not* feel such an influence as to apprise them of their proximity to such a stream of water or underground negative substance, then we may perhaps find in their constitutions the lack of such temperaments or nervous excitability as makes them good conductors from the upper surface of the earth, positively charged, to the rod in their hands, which still remaining in the neutral or equilibrium state, would have very little power, by reason of its discordant state, which is necessary to establish attraction, and of course would be as much repelled by the positively charged earth beneath the operator's feet, as attracted by the negatively charged stream. Thus such a person would fail.

J. S. W.

FOR THE PLOUGH, THE LOOM, AND THE ANVIL.

ON THE GEOLOGY AND PALEONTOLOGY OF NICHOLS, TIOGA CO., NEW-YORK.

By R. Howell.

THE geological formation of this vicinity is the upper part of the Ithaca and Chemung group, and is exposed to view only in a few places along the banks of streams, where it crops out, and, as far as I can ascertain, at least five hundred feet thick—in all probability twice that thickness. The strata alternates with grayish drab grit rock and drab shale. The grit rock is quite firm and durable, when not fossiliferous, but decomposes when fossils abound. The drab shale readily crumbles to small fragments, and contains no fossils. In a few localities there is found a dark-colored shale, more tough, and quite full of fossils. Among the fossils is a very small *Orthoceras*, remains of one or two *Encrinurus*, two species of *Delthyris*, and as many as four other fossils, not very common in the harder rock. I suppose the hills to rise in this town to between five and six hundred feet, and on the tops of the highest hills the rock, in some localities, comes within two or three feet of the top of the ground. In digging a well

on the side of a hill that is about five hundred feet high, after penetrating about eighteen inches, the hard pan was reached, which soon passed into the drab shale. After reaching ten or twelve feet, the dark shale was reached—quite full of fossils. After reaching eighteen or twenty feet, the hard gray rock was found, and the well finished twenty-four feet deep in the hard rock—water quite cold, but considerably impregnated with sulphur. The well is within one mile of the Susquehanna River, and about three hundred feet above the river.

I would notice in this place that the old red sandstone is not found in this town of any amount. On the tops of our highest hills are found not a few masses of what I suppose to be the lower strata of the old red sandstone. They appear in masses from four feet square to twenty and thirty, and generally project above the top of the ground from a few inches to three or four feet, and in layers generally about one fourth of an inch thick. The rock always appears as if it laid on the top of the ground, and has a singular appearance, being in so very thin layers, and wholly destitute of fossils. The color of this rock is dark drab. According to the State geological map, the old red sandstone is represented as covering a large portion of the town; but if all the rocks in this town were placed side by side of the old red, I think it would not cover five acres. The fossils of the Ithaca and Chemung group, as far as I have been able to collect, are as follows:

Triuostata Avacula, Chemung Cypricardite, Prolata Delthyris, Membronacons Strophomena, Globuliform Atrypa, Chemung Avacula, Chemung Atrypa, Avacula Pectomfermos, Avacula Spinigera, Avacula Damonsis, Pterinea Suborbicularis, Peoten Duplicatis, Strophomena Thervora, Strophomena Bifereata, Strophomena Arctoz-triato, Strophomena Pectinacea, Strophomena Interstralis, Orthis Interstralis, Septena Interstralis, Orthis Carinata, Orthis Impressa, Orthis Interlineata, Orthis Unguiculios, Delthyris Mesastralis, Delthyris Mesacostralis, Delthyris Disjuncta, Delthyris Cuspidata, Delthyris Acanothata, Delthyris Mucronata, Delthyris Inermis, Delthyris Acuminata, Atrypa Trybulis, Atrypa Dumora, Atrypa Tennilineate, Atrypa Laticostata, Atrypa Laticostata, var, Atrypa Contracta, Atrypa Eximia, Atrypa Polata, Atrypa Mesacostalis, Atrypa Duplicata, Sigillaria Chemungenis, Miprepion of Grammysia, Penmotomania, Pleurotomania. singular var, Avacula, singular var, Lixonema, Bucamia and Orthaceras, Chactites and Cyroppellin.*

The above fossils are the only ones that I have seen named in any work. Besides the above fossils, I have found perhaps as many more, not figured in any work that I have yet seen. The Grammysia are of three or four kinds or more, and will undoubtedly in time receive additional names. I have found as many as five species of the univalve spiral shell under the name of Pleurotomania, with from one to five whirls; and undoubtedly new names of the Orthoceras will be received. I have found parts of four or five different species. So of Tricircle Eneconites and of the Chactis different size and shape limbs; and also the case with two or three other species of Correlis. The fossils of this formation are found in loose, detached stones, along streams, and from the lowest flats to the tops of the highest hills; but generally a few on the tops of the the highest hills, and them generally of but three or four species. The best localities are along streams, where they have been torn from the ledge, also diluvial formations and certain hill sides scattered in every direction, along with drift from other formations. Nearly all the fossils that I have discovered I found within two miles of my house, and a majority of them within half a mile. The Susquehanna River bounds this town on the north, running the whole length of the town. The lower flats adjoining the river is from a few rods wide to half a mile, and the diluvial formation about the same width.

* These names are as given by Prof. Hall in his State Geology in 1843.

DRIFT.

A large amount of boulders are found in this vicinity from northern formations, and boulders from the primary rocks of the north-east. Among the primary boulders found in this town are several kinds of granite and gneiss, Hypertene, Horneblend, Basalt, Porphyry, Amygdaloid, green stone, several kinds of quartz, etc. Among the sedimentary boulders found in this vicinity are boulders from the Potsdam sandstone, including all the harder sedimentary rocks down to the Ithaca and Chemung groups; that is all rocks that are not slate or shale.

The theory that the drift current was from the North-east to the South-west is strongly substantiated by the fact of finding so much drift from the North-east from primary rocks and lower secondary. For proof of boulders from the Potsdam sandstone, I will state that I have noticed a number of the fossil plant of that formation, called *Scolithus Linearis*, also *Stromatocentrum Bugasium* from the Birds-eye limestone, also coral and *Orthis Rectilamellatum* from the Chazy limestone, also *Tavistella Favocidea* from the Clinton group, also *Lingula Cuneata* from the Medina sandstone, and *Porites* from the Niagara group, also from the Clinton and Niagara a large variety of *Favosites*, and from the Oriskany sandstone the following fossils, viz.: *Delthyris Arenaria-Atrypa*, *Elonogata-Atrypa*, *Peculiaris-Atrypa*, *Unguiformis*, besides five or six other varieties of the Oriskany sandstone, which prove beyond a doubt the locality of the drift or boulders. The diluvial formations along the Susquehanna River are quite full of small boulders from the Northern limestones. All the first frame buildings of this town were plastered from limestone collected along the streams. In neighboring towns a considerable amount of cemented gravel is found in the banks of streams. The soil of this vicinity is hardly surpassed by any other portion of the State for all kinds of grain, grass, the different roots, etc.

FISH CULTURE.

It was manifestly the design of divine Providence, that plants and animals should be prolific about in proportion to the perils which await the seed of the one and the progeny of the other. Thus the lion and the lioness are very able to protect their young, and their young are few. The progeny of the Guinea-pig fail of any such powerful protection, and they are numerous.

It is so with most kinds of fish. Trout of one year's growth feed on those in their first year. Those of two years feed on those of one, and so on, the older feeding on their juniors. They are *cannibals*, feeding on their fellows; and what renders it still more improbable that a troutling will run the gantlet so successfully as ever to reach his teens is, that other species of fish, occupying the same waters, especially the pickerel, will breakfast on a trout as keenly as on one of their own race, so that between their own cannibalism, and the war of races, and the craft of the angler, probably not one in a hundred ever come to maturity.

The trout should, therefore, according to the general rule, be prolific. It is a fact, we believe, that they are so. Inasmuch as they produce many eggs, but bring but few offspring to maturity, it has been asked, Can not the young be protected from the perils that ordinarily beset them, and so the prolific nature of the parents be turned to account in being made to produce a great amount of excellent food? The female trout, it is said, produces 600 eggs in one season. If each of these should produce a trout of half a pound weight, it would give 300 lbs. in a year, or in five years, 1500 lbs., equal to the weight of a large Durham cow, or a pretty good sized

ox of any other breed—all the product of a single pair of a united weight, it may be, of but one or two pounds.

Although such an estimate might possibly turn out like the milk and the eggs, and the new gown, and the lovers rejected with disdain, in the old spelling book, still the question, Whether the trout and other useful fish, if protected during their early exposures, may not be made to produce a great amount of valuable food, is a reasonable one. By investigations, made within the present decade, in France, Scotland, and this country, it is now answered in the affirmative. The parent fish can be made to deposit the spawn and the milt, in situations safer to the resulting young, than their own instincts would have chosen. From a book on this subject, by Dr. Garlick, of Cleveland, Ohio, mentioned among our book notices, we copy for the gratification of our readers, the following, *on the natural and artificial reproduction of the trout*. It is taken from different parts of the work, and may be regarded as a detail in part of the observations and experiments made by Dr. Garlick and Prof. Ackley, in fish-ponds, constructed by the latter, on his farm near Cleveland, and previously stocked with trout. The stream spoken of, we understand to be an artificial stream, conveying the water from one of these ponds to another.

"Several male trout had proceeded up the stream, and commenced preparing the beds in which the eggs were to be deposited. This was done by removing all the sediment and sand from certain gravelly locations. These beds were about one foot in diameter, consisting of coarse and fine pebbles, the spaces or interstices between which were to be the future depository for the eggs. This peculiar construction of their beds, or nests, is highly essential to their preservation, as it protects them from being washed away by freshets, also from being devoured by small fish which are always prowling about seeking them for food.

"The male trout at this time was very beautiful, being decked out in the most gaudy colors imaginable, and his actions showed clearly enough that he was quite vain of his personal appearance. In the course of five days, the females made their appearance. They were not near so gaudy in their dress, but had a most staid and matronly look.

"The next step was choosing their mates. After the usual amount of flattering attentions to the females, with which they seemed highly delighted, and some battles among the males, this important matter was apparently settled to the satisfaction of all parties. By what principles they were governed in making their selections I was unable to determine, but presume in this respect they are like men, governed more by fancy than judgment.

"Our trout were from four to six weeks later than their usual time in depositing their eggs, owing, no doubt, to the vicissitudes incident to transportation, change of water, etc. On the 20th November they had fairly commenced operations, one pair of fish occupying each bed: the male manifesting the utmost jealousy, and if any suspicious interloper approached, he was instantaneously attacked and driven off. On the 21st, I captured a pair by means of a landing net, and placed them in a bucket of water, and being provided with an earthen vessel, I made my first attempt at artificially spawning and impregnating the eggs. This was accomplished as follows:

"I partially filled the earthen vessel with water, and taking the female in my left hand, and making gentle pressure on her abdomen with my right, the eggs were forced into the earthen vessel containing the water; the male was treated in precisely the same manner, forcing the spermatie fluid into the same vessel; the appearance of the eggs was almost instantly changed from their bright golden orange color, to a pale transparent yellow; they were then placed in running water with the vessel containing them."

We do not feel at liberty to copy further from this very interesting report, but will add that the experiment was completely successful. The same experiments have been made by others, and with complete success. It is now shown, beyond a doubt, that fish culture may afford not only a pleasing amusement, but a profitable business, wherever a farm is suitable for it. The book from which we quote affords the instruction requisite to a successful prosecution of this branch of business. Dr. Garlick

and Prof. Ackley are the only persons in this country, so far as we know, who have experimented largely, or are capable of giving instruction. The following, we feel assured, will be read with interest :

"The Brook Trout inhabits none but the purest waters, such as mountain streams, spring brooks, and lakelets, in which the water is pure and cold. Their growth depends much upon the size of the stream they occupy ; if in a small spring brook, they would rarely exceed from four to six ounces in weight ; but if placed in a large river, or lakelet, they may attain to as many pounds, or even more. Their food consists of aquatic insects, and small fishes. They are remarkably shy and wary, but when domesticated, will become so tame and gentle, as to take food from the hand. Of all fish, this is the most desirable for fish culture, and should be selected in preference to any other, provided the quality of the water will be congenial to its wants.

"**SPAWNING.**—The spawning season commences about the first of October, and continues nearly two months, but a majority are through by the 15th or 20th of the month. They invariably seek very shoal, gravelly rapids for depositing their eggs, and prepare their beds by digging a cavity of from one to two feet in diameter, and two or three inches in depth ; by agitating the water in these beds, the fine sand and earth matter is got clear of, leaving the bottom of the bed covered with clean, coarse gravel. In this the eggs are deposited, together with the milt, one pair of fish always occupying one bed ; several pairs of trout may, however, occupy the same rapids or ripple. You will rarely find them occupying a rapid, unless there is a deep hole or hiding place close at hand and above the ripple. When frightened, they immediately run to their hiding place ; but if not further disturbed, will in a few moments return to their bed.

"**ARTIFICIAL BREEDING.**—In order to procure eggs for artificial breeding, the parent fish must always be taken on the spawning beds, and *after* they have commenced depositing their eggs, or they will be premature and useless, as they can not be impregnated. If the eggs are mature, they will flow from the female trout, with a very slight pressure, as the cellular tissue will have been absorbed, and the eggs lie loosely in the oviduct.

"**HOW TO CATCH THEM.**—The parent fish must be taken by means of nets, as they will not touch any kind of bait while engaged in spawning. A common landing net does well for this purpose, where they are in a very small stream. A very excellent net, is one that is made after the fashion of a seine. It should be three or four feet long, by two and a half feet wide ; the lower, or lead line, mounted with sinkers, and the ends mounded with a couple of sticks, or handles, (termed by fishermen brails). These handles should be about four feet long. Each end of the lead line is fastened to the lower end of the handles ; the upper, or cork line, is to be fastened the width of the net above where the lead line is fastened. By taking hold of the two handles, you can spread the net out before you ; standing between the handles, in this way, it can be slipped under banks, where they hide, or in holes, and not unfrequently they can be dipped up while running from their beds, if you are standing in the stream above them.

"**INCUBATION.**—Their term of incubation will depend somewhat upon the temperature of the water in which they are placed. With us the young trout begin to make their appearance in eight weeks, the water being 42° Fahrenheit ; but some will not make their appearance until two or three weeks later.

"**TREATMENT OF THE YOUNG FISH.**—After the young fry leave their eggs, they may be suffered to remain for a few days, in the hatching boxes, or they may be removed at once into small tanks or boxes, having fresh water running through them ; the place where the water enters, and where it makes its exit, being guarded by wire cloth, to prevent the escape of the fish. A box three feet long, by two feet broad, and one foot deep, would be sufficiently large to hold one or two thousand. When about two months old, they should be placed in larger tanks, or what would be still better, a pool of water, fed by a good spring. It would be well to have a nice, clean, gravelly bottom, with some large stones thrown in, which would afford them hiding places. If the pool could be shaded from the rays of the sun, it would be much better, as the water would be cooler, during the hot days of summer.

"**FOOD.**—The young fish need no feeding, for about one month after they leave the egg. As they draw, or receive their nutriment from the umbilical vesicle, or bladder, which is shown in the cut ; when this is absorbed, they will need feeding,

but only in small quantities, as the surplus falls to the bottom, and decomposes, contaminating the water, and rendering the fish unhealthy. It has been ascertained that the lean flesh of animals, when boiled, is an excellent article of food for young fish, or even old ones. As the young fish are very small, it is necessary to hash it up into very small particles, or they will not be able to swallow it; in fact, it should be pounded or grated very fine, but as they increase in size, it may be given in coarser particles. The flesh of other kinds of fishes, where they are plenty, would be an excellent substitute for the flesh of animals, either cooked or uncooked; I think this kind of food preferable to any other.

"PONDS.—It would be well to keep the young fry in small pools, or tanks, until they are a year old, before removing them into the pond or stream, as you can have them under your immediate observation and inspection, which is of a good deal of importance, at this tender age. After they are of a suitable age to be turned into the pond or stream, as the case may be, if very numerous, they will still need to be fed, occasionally, once per week at least, but if fed all they will eat, it would be still better and far more profitable.

"MORE ABOUT FEEDING.—It is perfectly astonishing how rapidly they grow after the first year, particularly if well fed; and as a lean and poor conditioned fish, though a trout, is one of the most miserable of dishes ever set upon the table, the fish intended for use, should be taken from the pond, selecting the largest ones, and put into a tank or pool, three weeks or more before killing, and fed all they can eat; in a word, they should be *stall fed*."

GUANO.

THE following correspondence sufficiently explains itself; and though somewhat old is not too old to be good. We place it under the head of Scientific, as it illustrates the science of spunging, and that is certainly a great science.

—, N.H., April 28, 1854.

HENRY F. FRENCH, Esq.: My Dear Sir:—I have bought some guano; what shall I do with it, and how shall I do it? I want to try the experiment up here in the country, as I suppose its principal use is as a sort of genteel city fertilizer, and not adapted to the rural regions. I want to try it, on some corn, potatoes squashes, cucumbers, etc., and I know no more about it than I do of the Sanscrit language, and as you are *au fait* in the matter, just develop your resources for the benefit of your race, and tell me how to make two ears of corn grow where three would grow without it.

Yours truly,

R. M.

EXETER, N.H., May, 1, 1854.

MY DEAR SIR:—I am much at loss how to reply to yours of the 28th ultimo. My last conversation with you on the subject of Agriculture, was, I think, in 1852, when you were a member of the New-Hampshire Legislature, and I, as a private individual, was urging the propriety of some action by your august body in aid of the cause, either by the appointment of a Commissioner, the creation of a Board of Agriculture, or by pecuniary assistance to the Societies.

Your views, at that time, coincided with those which have prevailed for some years among the farmers, who constitute a majority in the Legislature of this agricultural State. You verily believed, that scientific farming is a humbug; that while in all other pursuits, advances have been constantly made, and men have been greatly benefitted by diligent research, by comparing results, by making known the success and failure of their experiments, by meetings for discussion, by exhibitions of their products, by understanding accurately the nature of substances upon which they labor—you verily believed that a farmer's father and grandfather are the only valuable authorities, and that "the tradition of the elders" are of no more weight, than all the laws of nature, and all the attainments of science. In short, you seemed to believe, with Dogberry, "that to be a well-favored man is the gift of fortune," but that *to farm*, as well as "to read and write comes by nature."

And thus by the countenance, which educated men like yourself, who ought to know better, have given to the prejudices of ignorant men, against the value of accurate knowledge in this most important department, our good old Granite State,

which stood foremost in the day of battle for the defense of the soil, and which has done gloriously for the cause of education in her common schools, has fallen far behind her sister States in her zeal for the promotion of this branch of knowledge; and while Massachusetts, and New-York and Maine, and nearly all the other States are appropriating money liberally for this object, we have neither a Commissioner nor board of Agriculture; and not one cent is contributed to aid the County Societies in their desperate struggle with poverty, for existence.

But now you begin to inquire, What you shall do with guano? Adam and Cain knew nothing about the Chincha Islands, and our great-grandfathers consequently left no traditions on that subject, and you really feel as if something may be *learnt*, even about farming. I remember an anecdote about a farmer who had a lawsuit, and was told by his lawyer that he had filed a demurrer in his case. "A demurrer!" said the farmer, "pray tell me, Squire, what sort of a thing that is?" It was hopeless to attempt an explanation of a matter so abstruse, and the lawyer would not undertake it. "Gohome," said he, "my good fellow, and hoe your corn and potatoes, and feed your cattle; the Almighty never intended you should understand what a demurrer is."

Now, my dear sir, I have no doubt that you know exactly what a demurrer is, but I have serious doubts whether it was ever designed that you should know anything about *guano*, or anything else connected with agriculture. If it had been, you would not in his last half of this enlightened nineteenth century, be left in such heathenish darkness as to imagine that anybody could, in a single letter, give you the information you desire.

Not long ago, I received a letter requesting me just to take the trouble to inform the writer of the best mode in planting, rearing, pruning and cultivating an orchard; and another from a stranger, who said he had accepted an invitation to deliver an address before an agricultural society, and as I was in the way of writing on such topics, requested me to suggest to him a subject and a plan for his discourse, and such remarks as might be proper. I have not had time to answer these letters yet, and it would be a still harder task to undertake the education of a grown up pupil, on the subject of guano. My advice to you is, however, to commence with the last five volumes of the *New-England Farmer*, and read all the articles therein contained, on the subject. You will find no less than ten in the volume for 1853. Then read what you find in the *Granite Farmer and Visitor* for the past two years.

But you ought to be more thorough than this, and make yourself acquainted, not only with the constituent elements of guano, but of the plants into the constitution of which you intend it shall enter: Johnston's Elements of Agricultural Chemistry and Geology is a capital work for you, and Browne's American Muck Book contains a chapter of twelve pages on Guano—which you ought to read and understand before you use an ounce. You would do well also to review Stockhardt's Principles of Chemistry, which you probably studied in college without understanding what it meant.

You will also find in the appendix to the American edition of Johnston's Agricultural Chemistry, some very interesting experiments with guano on the various kinds of crops.

Were you one of that class of community, who believe that there is some advantage in *knowing how* to conduct farming operations, who read agricultural papers regularly, who are members of an Agricultural Society, and a Farmer's Club, and so learn what the rest of the world discovered long ago, it would hardly be necessary to refer you to so many books; but your inquiries make it quite certain that, like the good lady who visited the White Mountains and forgot to look at the scenery, you have spent your life in a country full of this kind of knowledge without thinking to acquire it.

Allow me, my friend, a word more in conclusion. Should you pursue your present idea of experimenting with guano, and find that from your ignorance of its properties and the true modes of using it, your corn never sprouts, and your potatoes do not come up till dog days, I pray you, do not publish your testimony that guano and scientific agriculture have both proved humbugs, just as you expected. I read of a man once, who was advised to try salt as a manure, and he did try it, and wrote his opinion for publication in an agricultural paper. He said he was satisfied that salt did more hurt than good: that he put a *half pint* into each hill of potatoes, and half of them never grew at all, and those that did grow came to nothing.

Another man, who tried guano on his cucumbers said, that on applying it one morning to some hills already up, the vines grew so fast that he was obliged to run to get out of their way, but they kept up with him and twined round his legs so as to

stop him. He then put his hand into his pockets for his jack knife, with which to cut loose from them, and found there a cucumber gone to seed!

Now, if you expect your cucumbers and squashes to grow at that rate, you will probably be disappointed.

Excuse me if I have herein addressed you as a person somewhat unlearned in the mysteries of agriculture. It is manifest from the fact that you do not state in your letter what *kind* of guano you have procured, that you do not know the difference between the Peruvian and Saldander Bay guano, although the first contains about 17 per cent of ammonia, and the latter about 1½ per cent., while the latter contains more than twice as much of the phosphates as the former, so that they are about as much alike as salt and saltpetre.

I am glad to see that you are beginning to take an interest in this subject. If at any time I can be of further service to you in the "pursuit of knowledge under difficulties," I hope you will not hesitate to command my services.

With sentiments of the highest consideration,
R. M., Esq.

Yours truly,
H. F. FRENCH, in N.E. Farmer.

FOR THE PLOUGH, THE LOOM, AND THE ANVIL.

THE WEATHER.

APPEARANCE OF BIRDS, FLOWERS, ETC., IN NICHOLS, TIOGA CO., N. Y., IN APRIL 1857.

By R. Howell.

Place of Observation, 42 degrees North, on a Diluvial Formation, about 40 feet above the Susquehanna River.

April. 6 A.M. 1 P.M. 9 P.M.						REMARKS.
1	35	44	20	South	Cloudy	Rain set in at 8 A.M.; continued till 5, and turned to snow. Some began ploughing.
2	10	20	12	North	"	Snow squalls.
3	10	42	33	South	"	Hallow around the moon, and rain.
4	29	61	40	"	"	
5	44	56	54	"	"	A light drizzling rain nearly all day.
6	56	34	20	S.&N.	"	A hard rain commenced at 10 A.M., and turned to snow at 1 P.M.
7	15	45	22	"	"	
8	30	51	40	South	"	
9	36	44	37	North	"	
10	34	40	36	"	"	A light drizzling rain commenced at 2 o'clock.
11	35	41	38	"	"	A light rain all day.
12	36	49	34	South	"	Lowery, and hard rain in evening.
13	29	49	34	"	"	A rain in evening and turned to snow.
14	32	40	36	North	"	About one inch of snow fell.
15	34	41	27	West	"	Snow squalls all day.
16	28	38	28	South	"	
17	29	36	25	North	"	
18	20	52	41	"	"	A few farmers first sowed oats.
19	37	42	34	South	"	A hard rain commenced 3 P.M.; snow at 6 P.M.
20	34	32	31	North	"	Snow all day—eight inches.
21	33	52	35	"	"	Stopped snowing at 1.8; rain all day; two and a-half feet of snow on hill.
22	25	50	31	"	"	Susquehanna River over the bank.
23	25	49	31	N. W.	"	Hallow around the sun.
24	27	46	31	"	"	
25	32	48	30	North	"	
26	26	51	42	South	"	A light rain in evening.
27	40	54	40	S. W.	"	A light rain in morning.
28	38	52	32	West	"	A number of fields sown with oats.
29	24	53	31	"	"	Few gardens first ploughed; potatoes planted.
30	25	61	41	South	Clear	

Observations of the weather, as connected with farm labor, kept with such accuracy as we believe the foregoing to have been, are of great value, and we congratulate

late our readers and ourselves on the prospect of having them regularly from Mr. Howell hereafter. Mr. H.'s remarks on the year 1856, in another part of this number, embrace more facts than we often find in so few words.—ED.

GROWTH OF MACHINERY.

THE ancients were not so ignorant of philosophy or of art, as they are sometimes supposed to have been. Modern inventions, it is well known, scarcely equal some of those of ancient times, and many of the ideas involved in recent inventions were suggested centuries ago, though the working model was never produced. The subject of progress is so well set forth in a few paragraphs by the eminent writer and lecturer, R. W. Emerson, in his "English Traits," that we give it an insertion below.

"Tis a curious chapter in modern history, the growth of the machine shop. Six hundred years ago, Roger Bacon explained the precession of the equinoxes, the consequent necessity of the reform in the calendar, measured the length of the year, invented gunpowder, and announced (as if looking from his lofty cell over five centuries into ours,) 'that machines can be constructed to drive ships more rapidly than a whole galley of rowers could do; nor would they need anything but a pilot to steer them. Carriages might be made to move at an incredible speed, without the aid of an animal. Finally, it would not be impossible to make machines which, by means of a suit of wings, should fly in the air in the manner of birds.' But the secret slept with Bacon. The six hundred years have not yet fulfilled his words. Two centuries ago, the sawing of timber was done by hand, the carriage wheels ran on wooden axles, the land was tilled by wooden ploughs. And it was to little purpose that they had pit coal, or that looms were improved, unless Watt and Stephenson had taught them to work force pumps and power looms by steam. The great strides were all taken within two hundred years. The 'Life of Sir Robert Peel,' who died the other day, the model Englishman, very properly has for a frontispiece a drawing of the spinning-jenny which wove the web of his fortunes. Hargreaves invented the spinning-jenny, and died in a workhouse. Arkwright improved the invention, and the machine dispensed with the work of ninety-nine men—that is, one spinner could do as much work as one hundred had done before.

"The loom was improved further. But the men would sometimes strike for wages, and combine against their masters, and, about 1829–30, much fear was felt, lest the trade would be drawn away by these interruptions, and the emigration of the spinners to Belgium and the United States. Iron and steel are very obedient. Whether it were not possible to make a spinner that would not rebel, nor mutter, nor scowl, nor strike for higher wages, nor emigrate. At the solicitation of the masters, after a mob and riot at Staleybridge, Mr. Roberts, of Manchester, undertook to create this peaceable fellow, instead of the quarrelsome fellow God had made. After a few trials, he succeeded, and in a creation, the delight of mill owners, and destined, they said, 'to restore order among the industrial classes'—a machine requiring only a child's hand to piece the broken yarns. As Arkwright had destroyed domestic spinning, so Roberts destroyed the factory spinner. The power of machinery in Great Britain, in mills, has been computed to be equal to six hundred millions of men; one man being able, by the aid of steam, to do the work which required two hundred and fifty men to accomplish fifty years ago. The production has been commensurate.

"England already had this laborious race, rich soil, water, wood, coal, iron, and favorable climate. Eight hundred years ago, commerce had made it rich, and it was recorded, 'England is the richest of all the northern nations.' The Norman historians recite, that 'in 1067, William carried with him into Normandy, from England, more gold and silver than had ever before been seen in Gaul.' But, when to this labor, and trade, and these native resources, was added this goblin of steam, with his myriad arms, never tired, working night and day, everlastingly, the amassing of property has run out of all figures. It makes the motor of the last ninety years. The steam-pipe has added to her population and wealth the equivalent of four or five Englands. Forty thousand ships are entered on Lloyd's lists. The yield of wheat has gone on from two million quarters at the time of the Stuarts, to thirteen million in 1854. A

thousand million of pounds sterling are said to compose the floating money of commerce. In 1848 Lord John Russell stated that 'the people of this country have laid out three hundred million pounds sterling of capital in railways, in the last four years.'

Domestic.

"DON'T TELL FATHER."

THERE is many a good mother who plans the ruin of the child she dearly loves—teaches it the first lesson in wrong doing, by simply saying, "*Now don't tell your father.*" Surely mothers do it thoughtlessly, ignorantly, not considering that it is a first lesson in deception.

Not at all strange that gamblers and liars and thieves and hypocrites, and distrustful, evil-minded people so abound, when weak, loving mothers with honeyed words and caresses, sweeten the little teachings that so soon ripen into all kinds of meanness and unprincipled rascality.

I heard a kind, well-meaning mother say to the puny baby in her arms, "Well, birdie shall have its good candy every day; bad papa shan't know it; see how it loves it!" and the little things whose reach of life had not a whole winter in it yet snatched at the bright red and blue colored poison, and made as many glad motions, as though it took its whole body to suck it with. The poor little thing had been fed on candy, almost, and fretted for more whenever its mouth was't filled. Even the nourishment nature provided, didn't wholly satisfy it, for it was't as sweet as candy.

I thought it was no wonder, if children were taught even in babyhood that papa was bad and ugly and unkind, that in youth they should call him a "snob" and the "old man," and the mother, whom they learned by experience had no stability of character, and was capable of deception, not strange they should so little respect her as to call her the "old woman."

I shudder when I hear the frequent words drop from young lips, "Oh, I must not let father know that!"

The father may be a stern man, rigid in his way of bringing up his children, but he has a heart somewhere, and surely truthful, honest, loving words from his own child, will find that warm place. So it is best never to deceive him in anything, but keep his confidence whole and unshaken, and the whiteness of the soul unsustained by that loathsome sin, deception.

"Father don't allow me to read novels," said a young lady to me lately, "but mother does, and so we two read all we can get, and he never knows it;" and she giggled as though they were very cunning and worthy of praise, for so completely deceiving poor, good father.

My soul sickened at the idea of a wife daring to teach her children to disobey their father; of the daughter, vain and unprincipled, with such a mother to teach and guide her. Better for the world she had never been born.

Dear Cultivator mothers, you who read this, look to-night upon your God-given children, as they lie in slumber in all the natural grace and beauty of childhood, and ask His guidance, as you resolve that never by any teachings of yours shall a blot rest upon the white pages of their souls; that never in the future shall they look back away through crime-stained years, and find that the first blemishing touch fell from a poor erring mother's lips, when she thoughtlessly taught them the first lessons in deception.—ROSELLA, in *Ohio Cultivator*.

COLD WATER OR ICE IN CONGESTION.

FRIEND HARRIS:—I want to say that the application of cold water to the head of patients laboring under Congestion of the Brain, increases the difficulty it is intended to remove. When I enter the chamber of the sick, where the patient is laboring under a disease of the brain, and the anxious mother or nurse is employed diligently in applying cold water to the head, to prevent the accumulating of blood, (the patient already delirious,) I remove the application, and wrap the head in a dry

warm woolen cloth of several thicknesses. By the time the astonished attendants begin to collect themselves, reason has resumed its seat in the mind of the patient, and in a very short time his system is under the composing influence of sleep.

The philosophy of this is easily understood. When cold water or ice is applied to the head, the blood, through sympathy, rushes there to expel the intruder, or, in other words, to restore the equilibrium of heat that has been destroyed by the cold application, and, if continued long, the whole vital force of the system is turned in that direction. By this time the brain becomes overcharged, and reason takes its flight, while the extremities, for the want of the vital stream, are contracting and assuming the appearance of death, which will soon terminate the sufferings of the patient, unless an equalized circulation can be restored.

It is unwise to continue cold applications to any part of the system; they always increase the difficulty they are intended to remove. If nothing else, they would finally absorb the heat, and leave the man as cold throughout as the water applied. In all cases of congestion, relaxation is the only reliable remedy, combined with external protection, and stimulation of a general character.

Thy friend,

MICAJAH T. JOHNSON, in *Ohio Cultivator*.

ADVANTAGE OF USING TOBACCO.

SOME few years ago the following was communicated to Commodore Wilkes, of the exploring expedition, by a savage of the Fejee Islands. He stated that a vessel, the hull of which was still lying on the beach, had come ashore in a storm, and that all the crew had fallen into the hands of the Islanders.

"What did you do with them?" inquired Wilkes. "Killed 'em all," answered the savage.

"What did you do with them after you had killed them?" "Eat 'em good," returned the cannibal.

"Did you eat them all?" asked the half-sick Commodore. "Yes, we eat all but one!"

"And why did you spare one?" "Because he tasted too much like tobacco. Couldn't eat him, no how!"

If a tobacco chewer should happen to fall into the hands of the New-Zealand savages, or get shipwrecked somewhere in the Fejee group, he will have the consolation of knowing that he will not be cut into steaks and buried in the unconsecrated stomach of a cannibal.

MAN WILL INDULGE IN POISONS.

It is stated that there are 600,000,000 of human beings who use tobacco, and that the world produces annually 1,480,000,000 lbs. of this fascinating and poisonous weed. Opium eaters number about 100,000,000. Indian hemp eaters about 150,000. Butternut eaters, 100,000,000. Cocoa eaters, 10,000,000. The value of these articles consumed, to say nothing of coffee and tea, is computed at \$300,000,000 per annum. Suppose we add strong drink, what a frightful aggregate of expense we would show. Hard times would cease, if man would cease to poison himself.—*Cleveland Gazette*.

IS IT SO?

Eggs, which are now so abundant, can, it is said, be better preserved in *corn meal* than in any other preparation yet known. Lay them with the small end down, and if undisturbed, they will be as good at the end of a year, as when packed.

Doubtful, we fancy; though if the meal were fine enough to exclude the air, and so dry as not to heat, it might answer.—Ed.

A CURE.

It is said that inflammatory rheumatism can be cured by the following simple method which we extract from a medical publication:—Half an ounce of pulverized saltpetre put in half a pint of sweet oil. Bathe the parts affected, and a sound cure will immediately follow.

BE A TRUE MAN.

LET virtue and truth be your guide, and not pleasure and interest. With a false heart you may prosper for a short time, but eventually it will prove your ruin. It is the nature of sin to grow more rank and show itself to the ruin of him who is under its dominion. The only way to live a peaceful and happy life is to be honest and just—true to yourself and to your God.

CURE FOR BOTS IN HORSES.

DREW's *Rural Intelligencer* says, an intelligent gentleman of our acquaintance, who has for years been largely concerned in the management of horses, called at the *Rural* office a few weeks ago, to say that he knew, by experience, of a remedy for bots in horses, which is sure to expel them from any one of the race afflicted with those dangerous insects. The medicine is nothing more or less than common fish pickle,—that from mackerel is perhaps best;—one common junk bottle full will generally dislodge the "varmints"—sometimes a second one may be necessary. To use his own words, "this is a perfect cure—no mistake." Some persons mistake the bellyache for bots. The latter may be known by the horse drawing down his tail, and giving it a peculiar motion. There is no such appearance in cases of mere bellyache.

TO GET RID OF HOUSE ANTS.

THE best way to get rid of ants is to set a quantity of cracked walnuts, or shell-barks, on plates, and put them in a closet where the ants congregate. They are very fond of these, and will collect in them in myriads. When they have collected in them make a general *auto-da-fe*, by turning nuts and ants together into the fire, and then replace the plates with fresh nuts. After they have become so thinned off as to cease collecting on plates, powder some gum camphor and put it in the holes and crevices; whereupon the remainder will speedily vamose. It may help the process of getting them to assemble on the shellbarks, to remove all edibles out of their way for a time.

SALERATUS IN BREAD.

WHY will housewives persist in using saleratus, soda, cream of tartar, and such "deleterious drugs" in the manufacture of their bread? Much better bread can be made without any of them. The lightest and sweetest bread ever made was with simple emptyings alone. Much of the ill health of many families we would name is caused by eating hot soda or saleratus bread. We once knew a man who lost the use of one of his hands by constantly eating bread in which a large quantity of saleratus was used to sweeten the "sourings" by which it was made to rise.—*Portland Transcript*.

CLEANING STOVES.

STOVE lustre when mixed with turpentine and applied in the usual manner, is blacker, more glossy and durable than if put on with any other liquid. The turpentine prevents rust—and when put on an old rusty stove will make it look as well as new.

DOUBLE TROUBLE AND SINGLE.

A CITY editor says that a man in New-York got himself into trouble by marrying two wives. A western editor assures his cotemporary that a good many men in Michigan have done the same thing by marrying only one!

FOR POLISHING FURNITURE.

TAKE two ounces of beeswax, and half an ounce of alkanet root; melt them together in an earthen pot; when melted, take it off the fire, and add two ounces spirits of wine, and half a pint of spirits of turpentine. Rub it on with a woolen cloth, and polish it with a clean silk cloth.

BE CHEERFUL.

CHEERFULNESS keeps up a kind of daylight in the mind, and fills it with a steady and perpetual serenity.

FAST men, like fast rivers, are generally the shallowest.

Children's Page.

WHO WEARS THE RING?

A VERY interesting entertainment for an evening party of young people, illustrating the use of figures and the three first principles of arithmetic, may be shown to a circle of friends by any young gentleman or lady who will learn the following simple rule. We should premise that the problems to be solved are these:—Who wears a certain ring? On what finger is it? Which joint of that finger does it encircle? All that are in the game are to be seated in a row, and each individual is to pass by the name of a number; beginning at the top with *one, two, three*, and so on. The person who is to tell where the ring is, must now leave the company, and, on his return, to the cry of "ready!" a number is given to him, say 982, and from it he is to calculate the exact position of the ring. The number given must be found thus:—Suppose the number of the person who has the ring is 7; double it; that will be 14; add 5; it will then be 19; multiply this by 5, and you will have 95; to this add the number of the finger that the ring is on, say the third; 95 and 3 is 98. To these figures put the last figure, or number of the joint the ring is round, say the second joint; 98 and the figure 2 put in front will make the sum equal to 982. You must now make the call "ready!" and when the "clever man" appears, the supposed number 982 is given to him as the position of the ring. It's exact place he finds by being "in the secret," that from whatever number thus obtained, he is to subtract 250. Now this number being taken from 982 leaves 732, indicative of the ring's position, viz.: on No. 7, 3d finger, 2d joint.

PLEASURE FOR A CHILD.

BLESSED be the hand that prepares pleasure for a child, for there is no saying when and where it may bloom forth. Does not almost everybody remember some kind-hearted man who showed him a kindness in the days of his childhood? The writer of this, recollects himself at this moment as a barefooted lad, standing by the fence of a poor little garden in his native village; with longing eyes he looked on the flowers which were blooming there quietly in the brightness of a Sunday morning. The possessor came forth from his little cottage; he was a wood-cutter by trade, and spent the whole week at work in the woods. He had come into the garden to gather flowers to stick in his coat when he went to church. He saw the boy, and breaking off the most beautiful of his carnations, which was streaked with red and white, he gave it to him. Neither the giver nor the receiver spoke a word, and with bounding steps the boy ran home; and now, here at a distance from that home, after so many events of so many years, the feeling of gratitude which agitated the breast of that boy expresses itself on paper. The carnation has long since withered, but now it blooms afresh.—*Douglas Jerrold.*

OLD CONUNDRUM.

WHY was St. Paul like a horse? Because he loved Timothy. Rather bad.

ANOTHER.

WHY is a pretty young woman like corn in time of scarcity? Because she ought to be husbanded. Pretty good, we think.

NEW CONUNDRUMS.

WHY is a grainfield like a group of children? Because when the heads bend and nod, they should be cradled.

WHY are the sheaves of grain like rude boys? Because they must be thrashed before they are fit for use.

IS IT SO?

DR. VALENTINE MOTT once said to a graduating class, "Young gentlemen, you should have two pockets made—a large one to hold the insults, a small one for fees.

IRISH BULL.

Two emeralders recently traveling towards the Iron City, came upon a mile board standing by the wayside, with this inscription upon it:—"43 miles from

Pittsburg." Supposing it to be a tombstone, one of them gently tapped the other upon the shoulder, and in a low tone he said—"Tread lightly, Jimmy; here lies the dead; 43 years ould, an' his name is Miles, from Pittsburg."

It is conceded on all hands that ladies are *fair*, and that chickens are *fowl*—that the money market and men that drink too much are *tight*—that morals are *loose*, and morning gowns too. Not a word about ladies lacing.

"A PENNY for your thoughts," said a gentleman to a pert beauty.

"They are not worth a farthing, sir," she replied, "I was thinking of you."

WHY is a watch dog larger at night than he is in the morning?

Because he is let out at night and taken in in the morning.

"I HAVE no dependence on you," as the sailor said when he let go his hold of a rope and tumbled into the sea.

WIT BUT FOR ITS IMPUDENCE.

A LITTLE wretch who had for the first time in his life heard the scripture story of Elijah and the bears, sat down on the door step until an old man went by, when he called out, of course, "go up, old bald head!" Then dodging as quickly as he could within the door, he called out, "Now bring on your bears!"

CAPITAL.

THE best capital that a young man can start with in life is industry, with good sense, courage and the love of God. They are better than cash, credit or friends.

A GREAT MAN'S GREATEST THOUGHTS.

MR. WEBSTER was once asked, in the presence of a company of gentlemen, what was the greatest thought which ever occupied his attention. With a serious and solemn air, he replied, "My individual responsibility to God." It was a great thought, worthy the mind of that great statesman, and yet no less demanding the attention of every child. It should be ever present with us as a preventive to sin, and an inducement to lead a life of holiness, that each one must give an account of himself to God.—*Sunday-School Visitor*.

Book Notices, etc.

THE FAMILY CIRCLE GLEE BOOK; containing Two Hundred Songs, Glees, Choruses, etc.; including many of the most popular pieces of the day; arranged and harmonized for four voices, with full accompaniments for the piano, seraphine and melodion, for the use of glee clubs, singing classes, and the home circle. Compiled by ELIAS HOWE. Published and sold by Mason & Bros., New-York: Russell & Richardson, Boston: J. B. Lippincott & Co., Philadelphia. 240 pages. Price \$1 25.

Two hundred songs! Old songs and new songs! Songs for the young folks and songs for the old—songs for all. What a world of sweet, beautiful, loving thought; and told too, in strains that stir the soul to its very depths. If there was more good singing in the world, there would be less sin. We verily believe that such music as this book contains is adapted to make the sober cheerful, and the thoughtless considerate, to chasten eccentricities, to curb evil passions, and to stimulate a well-balanced exercise of the reason and the affections. Here is "Auld Lang Syne!" Who could hear it for the nine hundredth time and not feel sentiments of exalted friendship rising higher than ever within? There is "Blue-eyed Mary." Bless us! how it brings into play all the better feelings of the youthful heart! There are the "Marriage Bell," (not Belle,) and "Oft in the Stilly Night," and "Oh, for the Wings of a Dove," and "Uncle Sam's Farm," and "Woman's Heart," and too many more to mention. Buy them; sing them; teach your children to sing them; they will be the better for it.

A TREATISE ON THE ARTIFICIAL PROPAGATION OF CERTAIN KINDS OF FISH; with the description and habits of such kinds as are most suitable for Pisciculture. By THEODATUS GARLICK, M.D., Vice-President of the Cleveland Academy of Natural Sciences.

This is a timely and well-prepared work of 142 pages, octavo, on a subject that is much talked of, and is of much real importance. Thos. Brown, of the *Ohio Farmer*, is the publisher. It treats of the habits, modes of reproduction, and general characteristics of the more useful fish,—as the trout, the black bass, and others; also of the best modes for reproducing them in abundance, and at small expense—for our lakes, rivers, small streams, and private fish-ponds. Every person, possessing the least particle of rational curiosity, will be paid for a perusal in the gratification it will afford; and all farmers, who have grounds so watered as to be suitable for the fish culture, may derive from it something more than the satisfying of a curiosity, however reasonable and elevated.

POULTRY AND EGGS.

It is said that the poultry value of the United States is about \$25,000,000; that of New-York State \$3,000,000; and that the city of New-York pays \$2,000,000 a year for eggs. This last would not seem to be an extravagant consumption, for it would allow but 7 mills per day for each resident, or about 5 cents per week, amounting to but \$2 50 a year.

One million's worth of eggs, it is said, are sold annually in Boston at the Quincy market alone; and a single dealer in Philadelphia ships a hundred barrels of eggs daily to the New-York market. At the rate of consumption in Boston, even if no eggs are sold in that city, except at Quincy market, New-York should consume five instead of two million's worth.

We should be sorry to have it believed that the people of New-York consume many million's worth of tobacco and of bad liquors a year and only two million's worth of eggs, lest it should be suspected that the tastes of the people are getting perverted.

According to Professor Johnston, the carbonate of lime in the shell of an egg constitutes one tenth of its weight, the yolk three tenths, and the white six tenths. About three fourths of the whole is water.—Ed.

WATER CURE.

WE perceive that J. H. NORTH, M.D., has opened a water cure establishment at Binghamp, Broome County, New-York. This is a delightful village, to our certain knowledge; and if this Dr. North is the same as we suppose, he was once a pupil of ours, was a first-rate-boy—just one of those boys that we *calculated* would make a first rate man.

As to the water cure, we believe it to be one of the best renovators of health known, provided there be no organic disease in the system, and provided further that the physician understands his business and attends to it personally. But woe to the patient, if these provisions are neglected. Indiscriminately administered, it kills as well as cures. Our own experience with it is rather dubious. We once went to a water cure, but not having faith to be cured, turned up missing after the second day, and subsequently gained more health, as we thought, by the application of a choice article of London porter inside, than we had seemed likely to gain by so many shower-baths, catarract baths, slap-dash, drown-'em-out-baths applied to the outside. The facts were: the attendants were Canadian French; they talked about their vocation in

French, thinking us entirely innocent of that language; but we understood them; we perceived that they were souzing us, ducking us, splashing it on, more at their own discretion than at the doctor's directions; and conscious that we neither deserved so harsh a punishment, nor had (at that time) the physical power to endure it, we thought it best to "step up to the captain's office and pay our bill."

CALIFORNIA FARMER.

THIS is one of the very best Agricultural weeklies in the country. The last number, we perceive, is on paper manufactured in California, as we understand all future numbers are to be; and if there is a journal in the older States, on better paper, with fairer type, or containing more valuable matter, we have not seen it. If we were a native, or a citizen by choice, of that new State, we should be prouder of that paper than of the gold mines; we believe there is more gold in the agricultural slopes and plains of that State, than in the ravines and gulches; and that the *California Farmer*, under the direction of Messrs. Warren & Co., is contributing largely to bring the soil to give up its golden harvests.

Is of the quarto form, about the size of the *N. Y. Tribune*, and is sold at \$5 00 a year, in advance. Agency at C. M. Saxton & Co's., 140 Fulton-st., N. Y.

SUCCESS DESIRABLE, BUT NOT ALWAYS A MEASURE OF REAL GREATNESS.

THOSE men who fail of success in the pursuits of life, will find some comfort in the following, from the pen of George S. Hilliard. We have seldom found a more eloquent passage. Success, in the ordinary sense of the term, is not always the true measure of real greatness. More than one man has failed to be rich, because he could not be mean; and thousands have missed the positions they deserved, because others were unscrupulous.

"I confess," says Mr. Hilliard, "that increasing years bring with them an increasing respect for men who do not succeed in life, as these words are commonly used. Heaven has been said to be a place for those who have not succeeded upon earth; and it is surely true that celestial graces do not best thrive and bloom in the hot blaze of human prosperity. Ill-success sometimes arises from a superabundance of qualities in themselves good; from a conscience too sensitive, a taste too fastidious, a self-forgetfulness too romantic, a modesty too retiring. I do not go so far as to say, with a living poet, that 'the world knows nothing of its greatest men,' but there are forms of greatness, or at least of excellence, which 'die and make no sign.' These are martyrs that miss the palm, but not the stake; heroes without the laurel, and conquerors without the triumph."

WESTCHESTER FARM SCHOOL.

MESSRS OLCOTT & VAIL, in a circular issued by them, as principals of this school, say:

Our purpose is to make the pursuit of Agriculture an intelligent, attractive and profitable one, and our previous success encourages a continuance in our plan of study.

The course of instruction embraces so much of *Chemistry* as will give a clear idea of the composition and mutual relation of soils, plants, animals, and atmosphere; *Botany* sufficient to know the characteristics of farm crops; *Geology* so far as relates to the formation of soils, and *Mechanical Philosophy*, so far as treats of tools, farm-machinery, and the physical treatment of soils.

Daily recitations are made, and the minutiae of the various subjects discussed. Occasional lectures are given, with appropriate Chemical and Philosophical illustrations.

A copious library of agricultural and other books is always accessible to the pupils for reference.

PRACTICE IN THE FIELD is required of young pupils, and those who are not familiar with the labors of the farm, and open to all others who desire it.

The whole aim of the Institution is to condense into a brief term of study as much valuable information as is consistent with profitable farming, and a *thorough* understanding of the important branches of Scientific Agriculture.

This Institution is seventeen miles from New-York, on the New-York and New-Haven Railroad, near Mt. Vernon, Westchester Co., N.Y.

We will add that we have had a not very long, but a very pleasant acquaintance with these gentlemen, and we believe them qualified, by education, and, what is almost as important—by a hearty, soul-ful enthusiasm for the work—for the position they occupy. The young man, who is to be a farmer can not fail to receive a life benefit by spending a summer with them; and if the slender, pale-faced youth of our cities would take a six-months' course on their farm, they would be the healthier for it life-long, and we do not believe that their knowledge of farming would hurt them a whit, for that or any other employment—ED.

UNITED STATES AGRICULTURAL SOCIETY.

Great National Trial of Machinery and Implements of every description pertaining to Agriculture, and Household Manufactures, at the FIFTH ANNUAL FAIR, to be held at Louisville, Ky., during the fall of 1857.

THE undersigned, a Committee of the United States Agricultural Society, appointed at the Fifth Annual meeting held at the Smithsonian Institution, in the city of Washington, on the 14th day of January, 1857, "to make all the necessary arrangements for a *National Trial in the field of Agricultural Implements and Machinery*," respectfully invite the Inventors and Manufacturers of such articles, both in the United States and Foreign Countries, to participate in a public trial to be made at the Society's Annual Exhibition, to be held at Louisville, Kentucky, during the fall of 1857.

This new arrangement for the exhibition of Agricultural Implements and Machinery of all kinds in actual operation, results from a conviction on the part of the Society that no just awards can be made except upon a practical working trial before competent judges; and the fullest opportunity will be afforded to test the comparative merits of the various machines that may be entered as competitors for the awards, both as regards land for field implements, and steam power for stationary machinery.

A SEPARATE TRIAL OF REAPERS AND MOWERS, will be made at the appropriate season, special arrangements for which as to time, place, etc., will be announced at an early date.

It is intended that these exhibitions shall be on the most extensive scale, for the purpose of testing the working qualities of these important implements more thoroughly than has yet been done on any previous occasion, either in the United States or in Europe.

All articles from foreign countries intended for exhibition may be consigned to the "Agent of the U. S. Agricultural Society, Louisville, Ky.," by whom they will be received and stored free of charge.

This brief announcement of the proposed trial is made at this early date to afford the most ample time for the preparation and transmission of machinery. A circular containing full particulars as to regulations will be issued as soon as practicable, and, with the premium list, will be forwarded to persons who may apply to the Secretary of the Committee, Henry S. Olcott, *American Institute*, N.Y., where all business letters should be addressed.

To enable the Society to make arrangements on a sufficiently liberal scale, it is absolutely necessary that the Committee should know what articles will be offered for competition; and they therefore request that all inventors or manufacturers who may be disposed to unite in the proposed Trial will communicate their intentions to the Secretary at their earliest convenience.

TENCH TILGHMAN, Chairman, Oxford, Md.

JNO. D. LANG, Vassalboro, Me.

J. THOMPSON WARDER, Springfield, Ohio.

GEO. E. WARING, Jr., Am. Institute, N. Y.

HENRY S. OLCOTT, Sec., W.C. Farm School, New-York.

Committee on Implements and Machinery of U. S. Agricultural Society.

Editors of Journals of every description, who are desirous to promote the interests of Agriculture and mechanics, will confer a particular favor by an insertion of the above circular.

SOUTHERN ENTERPRISE.

THE *New-Orleans Crescent* contains quite an interesting account of a factory for the manufacture of cotton-seed oil, that has just been established in that city, at a cost of sixty-five thousand dollars. The seed is hulled by a machine—the hulls are used for fuel—and the kernels, which descend upon a heated iron table, are cut into fine pieces and placed in bags, which are subjected to a pressure of two thousand tons in a press worked by steam admitted from below. The oil runs into a vat, from whence it is pumped into the clarifying house, where it is clarified and barrelled, ready for transportation. It is sold readily for one dollar a gallon, while the cake commands thirty dollars per ton, for feeding cattle. The present capacity of the mill, which runs night and day, is 900 gallons per day. There is room in the building, however, for machinery sufficient to turn out 2500 or 3000 gallons per day. We are glad to see this movement in the South. It is the first attempt of the kind in that section of the Union. A mill of a similar class is in successful operation at Providence, Rhode Island, and last year consumed no less than fourteen million pounds of seed.

HARLEM RAILROAD.—The affairs of this road have obtained a very healthy and prosperous condition under its present officers. Philo Hurd, Esq, the President, brought with him the experience of many years in the management of railroads, when he assumed the duties of his office; while Mr. Campbell, the Superintendent, had been connected with it for a long period of time. Under the control of these experienced officers, the road is beginning to fulfil the expectations that were cherished respecting it, by its founders. As a means of inland communication with Albany, especially, it has no rival in point of speed, cheap fare, and safety. The trains have run through the severity of the past winter with regularity, and at rates of fare lower than the Hudson River route. The road passes through the rich agricultural river counties, and is unrivalled in the beauty of inland scenery along its line.

TRANSACTIONS OF THE BRADFORD COUNTY, (PA.) AGRICULTURAL SOCIETY.

Thanks to *somebody* for this report. It is well arranged, and contains much valuable information. Among the best is the substance of an address, at the annual fair, by Hon. Horace Greeley.

BETTER BELIEVE IN THE COMET.—A French journalist advises that belief in the coming end of the world should be encouraged. He thinks we shall become better men. With death so near, every one will wish to put his conscience at ease, to repair wrongs, to do good, to abstain from evil. Ambition will be checked, avarice be abated, and liberality be universal. The many masks of society will fall, and sincerity prevail. It were better, at least, that we should try the experiment, and see the change that it would work in man, to believe the world near its end.

A GREAT PEOPLE.—According to the last census of the United States we have two millions and a half of farmers, one hundred thousand merchants, sixty-four thousand masons, and nearly two hundred thousand carpenters. We have fourteen thousand bakers to bake our bread; twenty-four thousand lawyers to set us by the ears; forty thousand doctors to "kill or cure," and fifteen hundred editors to keep this motley mass in order by the potent power of public opinion controlled and manufactured through the press.

THE peach crop in Egypt (Southern Illinois) has just been thinned sufficiently by the cold weather in April, to make it good. We have examined many trees, and find that none but the very earliest varieties have been injured to any great extent. There will be enough of this delicious fruit in Egypt to give our Northern friends a taste all round, and still enough to give those who like to imbibe, a taste all round of peach and honey.—*Jonesboro Gazette*.

So far as we can learn, in all the Eastern counties of Iowa, the fall wheat crops are all destroyed: we doubt whether there will be as much produced as to return the seed sown. In middle Iowa, it is partially destroyed. In the western counties where there was much snow all winter, we think there will be an average crop, but we presume there was little sown. About Dubuque, the papers there say that in consequence of the protection of the snow the winter wheat is doing very well.—*Iowa Farmer*.

WHEAT AND OATS.—In a recent conversation with Paoli Lathrop, Esq., of South Hadley Falls, he stated to us that he had derived great advantage from sowing spring wheat and oats together—the crop to be used for horse feed, whole or ground. He stated that the wheat kept the oats from falling, by which means they filled better, and that the mixed crop gave as many bushels as would have been obtained of oats, while the value was considerably greater. The proportion of seed is one third wheat and two thirds oats—three bushels of the mixture to the acre.—*Boston Cultivator*.

TO BE THOUGHT ABOUT.—Can a farmer find any better investment for his money above what is required for the support and education of his family, than to *expend it upon his farm*, in the improvement of his stock, in planting trees, in draining, enriching, improving and ornamenting the place he has chosen as the scene of his labors and the center of his comforts?—*Rural New-Yorker*.

In the middle ages, in France, a person convicted of being a calumniator was condemned to place himself on all fours, and bark like a dog for a quarter of an hour. If this custom were adopted at the present day, there would be some bow-wowling.

An old bachelor geologist was boasting that every rock was as familiar to him as the alphabet. A lady who was present declared she knew a rock of which he was wholly ignorant. "Name it, madam," cried Coelebs, in a rage. "It is rock the cradle, sir," replied the lady. Coelebs evaporated.

A CHAP reading that Mexican files had been received in New-York City, went into a hardware store and asked to look at some of them. He is a brother of the man who inquired for a pound of Liverpool dates received by one of the steamships.

PAT was hungry, and got out of the cars for his refreshment. The cars very thoughtlessly went on without him. Pat's ire was up. "Ye spalpeen!" he cried starting on a run, and shaking his fist, as he flew after the train, "stop there, ye auld stame wagon—ye've got a passenger *aboard* that's left *behind*."

POMPEY said he once worked for a man who raised his wages so high that he could only reach them once in two years.

PRIDE, though it can not prevent the holy affections from being felt, may prevent them from being shown.

WHEN you see a small waist, think how great a waste of health it represents.

PUNCH teaches book-keeping in three words—"Never lend them."

"MATRIMONIAL fruit basket" is now the polite name for cradles.

INDUCEMENTS TO NEW SUBSCRIBERS.

NEW subscribers who will advance before the 1st of July, for this work, from that time onward, (see second page, cover,) shall receive the May and June number gratis. The first of these numbers contains a most important article on *Wool and Wool Growing*. The second has an article on the *Artificial Propagation of Fish*, which, as well as several others in these numbers, we are quite sure will be found interesting. Our principal reason for wishing them to be in the hands of our future readers is, that in the May number we commenced a series of articles on Chemistry and its applications to agriculture, general industry, health, economy, etc., which we believe will be eminently instructive and useful; and we wish the numbers already published to be in the hands of our readers for reference.

BOOK PREMIUMS.—To any person who will forward us the names of a club, we will send by return mail, post-paid, as follows: For a club of four, the *Progressive Farmer*, worth 75cts.; for a club of five, six, or seven, a bound volume of *The Farmer*, published at Amherst, Mass., in 1855, worth \$1; for a club of eight or more, an elegantly bound volume of the *Plough, Loom, and Anvil*; and for the names of eight new subscribers, at single rates, with the money, (\$16,) we will send a copy of *Sears' People's Pictorial Domestic Bible*, with 1000 engravings, worth \$6.

Old subscribers, who will act for us in their respective localities, are at liberty to join a club, thereby reducing their own pay, and entitling themselves to a premium; and any old subscriber, who will send us seven new names with his own at single rates, (\$16 for the eight,) shall receive the last above-mentioned premium, or Webster's large Dictionary, if he prefers that.

The Market.

NEW-YORK CATTLE MARKET.

TOTAL RECEIPTS FOR THE WEEK ENDING MAY 20.

	Beeves.	Cows.	Veals.	Lambs.	Swine.
This week.....	2,428	52	806	512	4,234
Last week.....	2,908	410	1,040	8,302	5,009
Average last year.....	3,597	247	828	8,898	6,650

PRICES.

Premium cattle, (beeves,) 15a15½; first quality, 13½a14; medium, 12½a13; poor, 11½a12; general selling price, 12a14; average, 13a13½. PRICES LAST WEEK: Premium, 13a14; first quality, 12a12½; medium, 11a11½; poor, 10a10½; general selling price, 10a12. Rise 1½, or a little more.

Milk Cows, \$30a60; *sheep*, 11a13, sheared, 14a15 with wool on; *veal*s, scarce and light, sales, 6a7½; *lambs*, few, and selling at \$5a7 per head; *swine*, plentiful and lower, few sales at 6½a6¾.

MACASSAR OIL.—Common oil, three qts.; spirit of wine, half a pint; cinnamon powder, three ounces; bergamot, two ounces. Heat them together in a large pipkin; then remove it from the fire and add four small pieces of alkanot root, keeping it closely covered for several hours. Let it then be filtered through a tunnel lined with filtering paper.

THE newspaper is a sermon for the thoughtful, a library for the poor, a blessing to everybody. Lord Brougham calls it the best public instructor.

Our Popular Family Journals.

FOWLERS AND WELLS, 308 BROADWAY, NEW YORK, publish the following Scientific SERIALS, which afford an excellent opportunity for bringing before the Public all subjects of general interest.

LIFE ILLUSTRATED. A NEW FIRST-CLASS Weekly Newspaper, devoted to News, Literature, Science, and the Arts; to ENTERTAINMENT, IMPROVEMENT, and PROGRESS. Designed to encourage a spirit of HOPE, MANLINESS, SELF-RELIANCE, and ACTIVITY among the people; to point out the means of profitable economy; and to discuss and illustrate the LEADING IDEAS OF THE DAY; to record all signs of PROGRESS; and to advocate POLITICAL and INDUSTRIAL RIGHTS FOR ALL CLASSES.

Its columns contain Original Essays—Historical, Biographical, and Descriptive; Sketches of Travel and Adventure; Poetry, Painting, Music, Sculpture, etc.; Articles on Science, Agriculture, Horticulture, Physiology, Education, the Markets, General News, and every topic which is of importance or interest; all combining to render it one of the BEST FAMILY NEWSPAPERS IN THE WORLD. Published weekly, at Two DOLLARS a year in advance.

Certainly one of the most beautiful specimens of newspaper printing we have ever seen.—[*Buff. Ch. Advocate*.]

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The cleanest, smoothest, and whitest paper, printed in a style of typographical beauty such as we never saw exceeded—no, nor equalled.—[*Troop Co. Agitator*.]

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THE WATER-CURE JOURNAL, AND HERALD OF REFORMS. Devoted to Hydropathy, its Philosophy and Practice; to Physiology and Anatomy, with Illustrative engravings; to Dietetics, Exercise, Clothing, Occupations, Amusements, and those Laws which govern Life and Health. Monthly, at One Dollar a Year.

It holds a high rank in the science of health; always ready, straight-forward, and plain-spoken, it unfolds the laws of our physical nature, without any technicalities, but in a form as attractive and refreshing as the sparkling element of which it treats.—[*New York Tribune*.]

Within the whole range of our acquaintance, we know of no publication so well adapted to doing good as the WATER-CURE JOURNAL.—[*Independent Monitor*.]

This is unquestionably the most popular Health Journal in the world.—[*New York Evening Post*.]

THE AMERICAN PHRENOLOGICAL JOURNAL. A Repository of Science, Literature, and General Intelligence; devoted to Phrenology, Education, Magnetism, Psychology, Mechanism, Architecture, and to all those Progressive Measures which are calculated to Reform, Elevate, and Improve Mankind. Illustrated with numerous portraits and other engravings. A beautiful Quarto. One Dollar a Year.

Standard authority in all matters pertaining to Phrenology. The beautiful typography and the superior character of the illustrations are not exceeded in any work with which we are acquainted.—[*Am. Courier*.]

Devoted to the highest happiness and interests of man, and afforded at the low price of a dollar a year, it must succeed in running up its present large circulation to a much higher figure.—[*New York Tribune*.]

FOR THREE DOLLARS, in advance, a copy of LIFE ILLUSTRATED, the PHRENOLOGICAL JOURNAL, and the WATER-CURE JOURNAL, will be sent a year to one address.

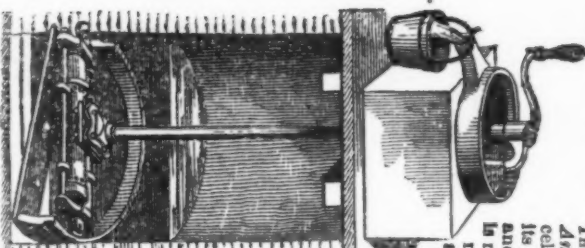
Now is the time to subscribe. COMMUNICATIONS, NEW BOOKS for notice or review, ADVERTISEMENTS, and SUBSCRIPTIONS, should be addressed to the PUBLISHERS, as follows:

BOSTON: 142 Washington Street.
PHILADELPHIA: 231 Arch Street.

FOWLERS AND WELLS,
No. 308 Broadway, New York.

Lindsey's Double-Acting

ROTARY FORCE PUMP.



This pump has just been patented in America and England, and far exceeds any pump heretofore invented; its peculiarities are simplicity, power, and cheapness. Its simplicity; there is nothing about it but iron and cast metal, and it can be taken apart and put up by any one, and will last for an age. It has the power to raise water *hundreds of feet*, with the extra expense of \$3 and the price of pipe. Water rises in it by hand 100 feet per minute! For cheapness; a No. 1 pump (for all ordinary purposes) complete, and fifty feet of pipe, costs but \$30! The handle at the top, turns the pipe and pump, and every revolution fills the cylinder twice, affording an abundant supply of water with the least possible expense and labor. It is peculiarly adapted to *deep wells, rail road stations, mill works, mining and manufacturing purposes*. Whenever it is introduced, the old force, suction and chain pumps will disappear. Practical and scientific men pronounce it as without an equal, for all that is here claimed for it. The *Scientific American*, after seeing it in operation, says: "This pump is very simple in construction, not liable to get out of order, durable, easily operated and economical; we regard it as an excellent improvement." Circulars with an accurate drawing and full description sent free of charge to all parts of the country. No. 1, has a one inch pipe; No. 2, 1 1/2 inches; No. 3, 1 3/4 inches; and the prices \$30, \$32, \$34; the No. 2 and 3 are designed for *very deep wells, railroad stations, etc.* where much water is required. The subscriber is the general agent for the sale of these pumps to all parts of the world, and *exclusive agent for New York*. Orders must be accompanied by the cash, and should be explicit as to the kind of pump wanted, depth of well, shipping address, &c. They will meet prompt attention. A pump and pipe weighs about 110 lbs. No charge for shipping or cartage. Wells over 50 feet should have extra gearing, which costs \$3.

JAMES M. EDNEY,
Comm. Merchant, 56 John St. N. Y.
For sale by H. LINDSEY, Inventor, Ashville, N. C.

International Hotel, April 4, 1856.

This is to certify that I purchased 200 of of Messrs. TAYLOR & HODGETT'S "Infallible Fruit Cans," for the purpose of putting up different kinds of Fruits. The result of my experience is, that I found Messrs. TAYLOR & HODGETT'S Can, to answer every purpose desired. I found the sealing was as perfect and infallible as if soldered by a tinner.

JOHN TAYLOR,

Taylor's Saloon, Broadway, N. Y.

SAVE YOUR STRAWBERRIES.

From the *Rahway Republican*.

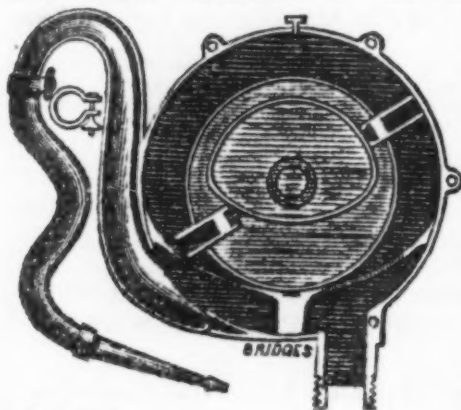
We commend to the special attention of families, hotel keepers, &c., an advertisement in another column, headed "An Infallible Self-Sealing Fruit and Vegetable Can, &c." We fully tested this article last year, and found it then all it was represented to be, and as we understand it has been decidedly improved of late, we are very much under the impression that it must be now infallible, as the advertisement states. Our readers will do well to supply themselves with this invaluable article.

**THE INFALLIBLE
SELF-SEALING
FRUIT AND VEGETABLE
CAN.**

Our experience during the past year in manufacturing Self-Sealing Fruit Cans, and the universal satisfaction and certificates of parties who have purchased and tested those of various makers have given ours the decided preference over all others. The subscribers offer to the public the best Self-Sealing Can ever invented, to preserve Fruits, Vegetables, &c. The sealing is invariably PERFECT. All others require solder or cement. The opening has been enlarged to admit a full sized Peach. Every Can is perfectly tested before it leaves our manufactory, and stamped with our name.

TAYLOR & HODGETTS,
Man'rs of Plashed Tin & Japaned Ware,
No. 60 Beekman St., N. Y.

A. W. CARY'S ROTARY FIRE-ENGINE PUMPS.



Sept. 18-4y.

THE Inventor, after thoroughly testing this engine pump, for the past two years, feels confident that it is not equalled by any thing now in market, in the way of raising or forcing water; the motion being rotary, the stream is constant, without the aid of an AIR vessel. The packing is self-adjusting, very durable, and can not well get out of order.

These pumps are well calculated for all the purposes for which pumps or hydrants may be used, viz., Factories, Steamboats, Tanneries, Breweries, Distilleries, Railroads, Water Stations, Hotels, Mines, Garden Engines, &c.

Among the many testimonials given of this pump, is a gold medal awarded at the last great Fair of the American Institute.

No. 1 is a house or well pump and domestic Fire Engine, and will raise from 20 to 30 gallons per minute.

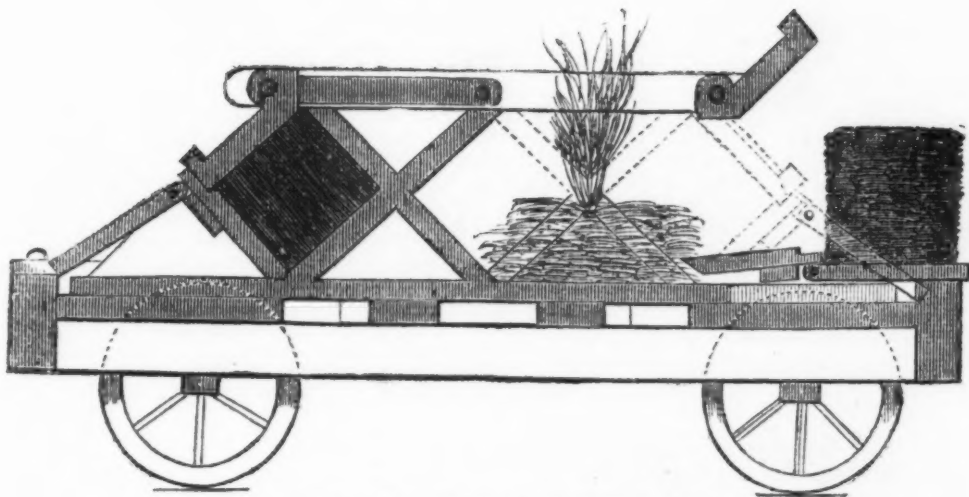
No. 2 will raise 100 gallons at 120 revolutions.

No. 2 1/2 " 200 " 120 "

No. 3 " 300 " 120 "

The quantity raised can be doubled, by doubling the revolutions. These machines are manufactured and sold by the subscribers at Brockport, N. Y.; also in this city, 240 Broadway.

CARY & BRAINERD.



MANNY'S Patent Portable Hay and Cotton Press,

PATENTED April 17, 1855; being a Horizontal, Vibrating, Lever Press, constructed on Wheels; is readily drawn from place to place, and worked with great facility; the Press being filled at one end while the Bale is being hooped at the other, and *vice versa*; pressing a Bale at each vibration of the Levers; and, as is apparent, capable of doing a great amount of work, and designed to fully meet the wants of the public.

All Orders and Communications addressed to P. MANNY, Wadon's Grove, Ill., punctually responded to.
P. MANNY.

IMPROVED DENTISTRY.

THE Subscriber has much pleasure in introducing to the notice of those requiring Artificial Teeth, his RECENTLY discovered method of obviating the deleterious galvanic action of gold plates, &c., in causing *tenderness, exquisite pain, looseness, decay, and loss of the living contiguous teeth*, which the plate comes in contact. This discovery is the result of patient experimental investigation. It consists in the preparation and adoption of electro-negative gold plates as a basis for artificial teeth. The gold employed is of the finest quality, (twenty carat,) and being rendered *electro-attractive*, the acids of the mouth are diverted from the living natural teeth, which are thus effectually secured against decay or disease, whilst at the same time, the taste and functions of the mouth are preserved in a healthy and unimpaired condition. The importance of this discovery will be obvious to all who have heretofore suffered from the evils against which it provides an infallible security. Artificial Teeth inserted on Gutta Percha, a soft elastic substance, suitable for aged persons with tender gums.

A. C. CASTLE, M.D., 246 Fourth St., Washington Square.

From the Evening Post.

"DR. A. C. CASTLE, DENTIST, who has lived a long while in this city, has obtained an enviable eminence in his profession. Dr. C. is a regularly educated physician, having been four years a pupil of Dr. J. C. CHEESEMAN. He operates upon the teeth with great skill and ability. He has also prepared a COMPOSITION for filling decayed teeth, which is put into the tooth whilst in a soft state, and becomes impacted with and as hard as the tooth itself. It RESISTS the action of all acids and INFECTING AGENTS, and is perfectly innocent in its properties. We have tried it, and can recommend Dr. C.'s mode as being peculiarly adapted for nervous persons."

Dr. A. C. C. fills teeth with FINE GOLD foil, sponge gold, &c., &c.

Willis's Patent Stump Puller.

This is a Machine of vast power; and for extracting stumps, large or small, it has no equal. It will take out from twelve to twenty an hour, without difficulty, and with but a single yoke of oxen. It is also the best Machine yet invented for moving buildings.

All progressive men who desire to bring their waste lands at once into market, or a state of fertility, are invited to address or call on the patentee, WM. W. WILLIS, Orange, Mass., or John Raynolds, at C. M. Saxton & Co.'s, No. 140 Fulton Street, N. Y., where a working model may be seen, and other information obtained.

June, 11.

PIANOS, MELODEONS, AND MUSIC.

THE CASH SYSTEM ADOPTED! PRICES GREATLY REDUCED.

HORACE WATERS,

No. 333 BROADWAY, NEW YORK,

AGENT FOR THE BEST BOSTON AND NEW YORK INSTRUMENTS.

THE LARGEST ASSORTMENT OF PIANOS, MELODEONS, MUSICAL INSTRUMENTS, AND MUSICAL Merchandise of all kinds, in the United States. Pianos from ten different Manufactories, comprising those of every variety of style, from the plain, neat and substantial 6½ octaves, in Walnut or Rosewood Cases, from \$150 to \$200, to those of the most elegant finish up to ONE THOUSAND DOLLARS. No house in the Union can compete with the above in the number, variety, and celebrity of its instruments, nor in the EXTREMELY LOW PRICES at which they are sold.

HORACE WATERS' MODERN IMPROVED PIANOS,

With or without Iron Frames, possessing in their improvements of over-strings and action, a length of scale, power, and compass of tone equal to the Grand Piano, united with the beauty and durability of structure of the square Piano. They are justly pronounced by the Press and by the first Musical Masters to be equal to those of any other manufacturer. They are built of the best and most thoroughly seasoned material, and guaranteed to stand the action of every climate.

Each Instrument guaranteed to give satisfaction, or purchase-money refunded. **SECOND-HAND PIANOS AT GREAT BARGAINS**, constantly in store, price from \$30 to \$140.

HORACE WATERS' MELODEONS, superior Instruments in tone, touch and durability of make (Tuned the equal temperament.) Melodeons of all other styles and makes. Price, \$45, \$60, \$75, \$100, \$125, \$140; double Reeds, \$150; double Reeds and two banks of Keys, \$200. Less a liberal discount. Clergymen and Churches, an extra discount.

MARTIN'S GUITARS, BROWN'S HARPS, FLUTES, FLUTINAS, ACCORDEONS, VIOLINS, and Musical Instruments of all kinds, at lower prices than ever before offered to the public. A large discount to Teachers and Schools. The trade supplied on the most liberal terms.

MUSIC:—One of the largest and best selected catalogues of Music now published, comprising many of the choice and most popular airs of the day, and will be sold at one-third off from the regular prices.

Music sent by mail to all parts of the country, post paid. Particular and personal attention paid to all orders received by mail. Satisfaction guaranteed in every instance. Pianos and Melodeons for rent, and rent allowed on purchase. Pianos and Melodeons for sale on monthly payments. Second-hand Pianos taken in exchange for new. General and select Catalogues and Schedule of prices forwarded to all parts of the country by mail.

➤ **GREAT INDUCEMENTS OFFERED TO AGENTS IN ALL PARTS OF THE COUNTRY, TO SELL THE HORACE WATERS' PIANOS, MELODEONS, and CATALOGUE OF MUSIC.**

PIANOS AND MUSIC.—We learn that Horace Waters, of 333 Broadway, N. Y., agent for the sale of many of the most celebrated makers of Pianos and Melodeons, is offering them at prices which we advise all who desire to purchase to avail themselves of, as an opportunity not likely often to occur. He is also selling his large and well known Catalogue of Music at one-third off from the regular prices, and will forward the same free of postage. His offers to the trade, teachers, and schools, are of the most favorable character—all of which he will be able to fill to the letter, for having wisely adopted the cash system. The Horace Waters' Pianos are known as among the very best. We are enabled to speak of those instruments with some degree of confidence, from a personal knowledge of their excellent tone and durable quality.—*N. Y. Evangelist.*

ATKINS' AUTOMATON; or, Self-Raking Reaper and Mower. BEST MACHINE IN USE.

1 (the first) used in 1852. 40 used successfully in 1853. 300 in twenty different States in 1854. 1200 in all parts of the Union in 1855. 3000 building for the harvest of 1856.

THERE are six good reasons for this unparalleled increase and great popularity:—1st. It is strong and reliable, and easily managed. 2d. It saves the hard labor of Raking. 3d. It saves at least another hand in binding. 4th. It saves shattering by the careful handling in raking; besides, the straw being laid straight, it is well secured in the sheaf, and does not drop in the after handling, and the heads are not exposed in the stack, so that the GRAIN saving even exceeds the LABOR saving. 5th. It is a good Mower, being one of the best convertible machines in use. 6th. It has a knife that does not choke.

Its other excellencies, too numerous to mention here, are fairly given in the circulars. Its intrinsic worth is also attested by the award (mostly in only three years) of

OVER 70 FIRST PREMIUMS!

PRICE.—REAPER AND MOWER, \$200.—\$75 on its receipt. \$75 first September, and \$50 first December. Price of SELF-RAKING REAPER, only \$175. Considerable saving in freight to those at a distance who order prior to 1st March; also liberal discount for advance payment.

To secure a machine, order immediately. Though so little known the past season, and none ready for delivery till 1st May, yet not two-thirds the customers could be supplied. The reputation of the Machine is now widely established, so that THREE THOUSAND will not as nearly supply the demand as twelve hundred did last year, and we shall also be selling four months earlier.

Order early, if you would not be disappointed.

PAMPHLETS giving IMPARTIALLY the OPINIONS OF FARMERS, together with orders, notes, &c., mailed to applicants, and pre-paid.

Write to us at CHICAGO, (Ill.) DAYTON, (Ohio,) or BALTIMORE, (Md.) whichever is nearest to you.

J. S. WRIGHT & Co.

"*Prairie Farmer*" Works, Chicago, Dec. 1st, 1855.

SUPER PHOSPHATE OF LIME MANURE.

C. B. DE BURG

Has the pleasure of announcing to his former patrons and other farmers who may wish to improve their Soils, that he has during the past year succeeded in manufacturing from the Gas Works around the city, a superior quality of Sulphate of "Ammonia," in large quantities, and he is now prepared to furnish

C. B. De Burg's Super Phosphate of Lime,

highly charged with "Ammonia," which, from experiments made by scrupulous experimenters, is now acknowledged to be the most valuable element in all kinds of Organic and Artificial Fertilizers. Public State Agricultural Societies, and distinguished Farmers tried many experiments the past season with his preparation side by side of Peruvian Guano and other concentrated Manures, with universal success—detailed accounts of these will shortly be placed before the public for examination. The proprietor is working for future and lasting reputation, and begs to assure his friends that he will spare no pains or efforts to make every package of "Super Phosphate" bearing his name, just what it purports to be.

To avoid imposition or deception being practised, henceforth all packages will be distinctly marked, "C. B. De Burg's No. 1, Super Phosphate of Lime."

Pamphlets, with instructions for use, etc., will be forwarded on application to

C. B. DE BURG, SOLE PROPRIETOR,

WILLIAMSBURGH, LONG ISLAND, NEW-YORK.

MANHATTAN LIFE INSURANCE COMPANY,

146 BROADWAY, N. Y., CORNER OF LIBERTY STREET.

CASH CAPITAL AND ACCUMULATION, \$350,000.

\$100,000 deposited with the Comptroller of the State for the security of all policy holders. Persons insuring with this company, will be entitled to their pro rata share of the dividends. The rates and principles adopted have stood the test of experience, and must secure, beyond contingency, the object for which Life Insurance is effected—immediate and permanent aid to the WIDOW AND ORPHAN.

C. Y. WEMPLE, Secretary.

N. D. MORGAN, President.

ABRAM DU BOIS, M. D., Medical Examiner, attends at the office daily, from 2 to 3 o'clock P.M. Prospectuses to be had at the office, gratis.

IRON FURNITURE.



NEW-YORK
BERLIN IRON FURNITURE WORKS,

51 GREEN STREET.

Between Grand and Broome, New-York.

The subscriber invites attention to his stock of ORNAMENTAL AND USEFUL IRON FURNITURE, consisting in part of

Bedsteads, highly ornamented, in great variety.

" for Seminaries and Schools,

" for Hotels, Servants, and Hospitals.

(Public Institutions supplied at the lowest terms.)

Marble and Parent Marble Top Tables, Bronze and Gilt.

Children's Cribs, Cradles and Bedsteads.

Hat, Coat and Umbrella Stands, of every style.

Hall, Garden, and Cemetery Settees and Chairs.

Store Stools always on hand, as also an endless variety of plain, useful and recherche articles.

Bedding, Spring, Hair, Husk, and Straw Mattresses, of all sizes, on hand.

Purchasers at this establishment can have their Goods Repaired, Re-Gilt, or Re-Bronzed, at the lowest prices.

CHARLES H. SANDFORD,

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SALAMANDER SAFE.

TILTON & McFARLAND,

172 Broadway, cor. Maiden Lane, New-York,

OFFER THEIR

FIRE AND BURGLAR PROOF SAFES

To the public, as superior to any manufactured in the world, either for FIRE OR BURGLAR PROOF qualities; and are warranted entirely FREE FROM DAMPNESS, which is not the case with many others manufactured here. Of the thousands sold by us, not one of the many that have been tested in actual fires of the most intense heat, have the

BOOKS OR PAPERS SUFFERED THE LEAST!

Nor have Burglars, after repeated attempts, ever been able to pick our POWER AND BURGLAR PROOF LOCKS. These Safes have the precedence in the Government Offices at Washington, and are introduced in preference to others in the Patent Office, for the safe deposit of Government Jewels.

Purchasers are invited to call, examine, and compare prices and qualities with other manufacturers'.

172 BROADWAY, New-York.

145 PLATT ST., Baltimore, Md.

14 HOWARD ST., Boston, Mass.

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18 EXCHANGE ST., Portland, Me.

90 BATTERY ST., San Francisco, Cal.

STEVENS'

CELEBRATED PATENT BROAD-CAST AND DRILL SEED-SOWER,

For Wheat, Rye, Oats, Barley, Buckwheat, Hemp, Flax, Cotton, and Rice; also, all kinds of Grass-Seeds, together with Guano, Lime, Plaster, Bone-Dust and Ashes; Corn, Peas, and Beans, when not planted in hill.

So simple and cheap an agricultural implement, it is believed, has never before been offered to the public.

The great amount of labor and the large per centage of seed saved by the use of this machine, make it for the interest of every farmer, of however limited means, to own one.

There being no valves to clog, or machinery of any kind to look after, the cheapest of help can operate it with facility.

A hand-machine, costing only \$35, will sow from twelve to fifteen acres daily; larger machines, using one or more horses, will sow from fifty to one hundred acres daily, and do the work in such manner, that the same quantity of seed will lie upon each square foot, rod, or acre of soil.

For further information, or rights to manufacture and use, address

Mar. 5th, 12

WM. S. SAMPSON, Proprietor, Boston, Mass.

FOR BOSTON, VIA NEWPORT AND FALL RIVER,

By the splendid and superior steamers "Metropolis," "Empire State," and "Bay State," of great strength and speed, particularly adapted to the navigation of Long Island Sound, running in connection with the Fall River and Old Colony Railroad, a distance of 53 miles to Boston, only.

Leave Pier No 3, N. R., near the Battery.

The steamer BAY STATE, Captain Thomas J. Jewett, on Mondays, Wednesdays, and Fridays, at 4 o'clock P. M., touching at Newport each way. The steamer METROPOLIS, Capt. Wm. Brown, on Tuesdays, Thursdays, and Saturdays, at 5 o'clock P. M., touching at Newport each way.

These steamers are fitted up with commodious state rooms, and every arrangement for the security and comfort of the passengers, who are afforded by this route a night's rest on board, and, on arrival at Fall River, proceed per Steamboat train, reaching Boston early on the following morning, or may remain on board and take the accommodation train at 6 1/4 A. M., and reach Boston about 8 3/4 A. M.

A baggage master is attached to each steamer, who receives and tickets the baggage, and accompanies the same to its destination.

A steamer runs in connection with this line to and from Providence, daily, except Sundays.

Freight to Boston is forwarded through with great despatch by an Express Freight Train, &c. &c.

For freight or passage apply on board, or at the office on Pier 3, North River, where state rooms and berths may be secured. Hereafter no rooms will be regarded as secured by any applicant until the same shall have been paid for.

For further information, apply to

WM. BORDEN, Agent, 70 and 71 West street.

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Trains leave Philadelphia for Pittsburg, and intervening Stations, at 7.30 A.M., (Mail;) 12.30 P.M., (Exp.;) and 11 P.M., (Exp.)

EASTERN TRAVEL.

EASTERN RAILROAD.—Trains leave Boston for Salem, 7.30, and 10.30, A.M., 12 M., 2.30, 3.50, 4.30, 5.45, 6.15, and 11.15, P.M. Through to Portland, 7.30 A.M., and 2.30, 5, P.M. From Portland to Boston, leave 8.45 A.M., and 2.45 and 4.55, P.M.

CHEAP AND USEFUL BOOKS FOR FARMERS.

THE STABLE BOOK.	\$1 00
YOUTT AND MARTIN ON CATTLE.	1 25
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And many other Works on Agriculture, sent by mail, postage paid, on receipt of price. Catalogues sent to all who apply with their names and address.

C. M. SAXTON & Co., 140 Fulton Street, N. Y.



WILDER'S PATENT SALAMANDER SAFE

The best Fire-Proof Safe in the World.
With the best Powder and Burglar-Proof Lock.

To this Safe was awarded the Prize Medal at the
World's Fair, in London, in 1851.

By a recent discovery of our Mr. WILDER, (for which application has been made for Letters Patent,) we are now prepared to furnish to the Public a Safe warranted FREE FROM DAMPNESS, even if kept closed for years. The public should keep in mind that this

"World-Renowned" Fire-Proof Safe,

is no longer sold by SILAS C. HERRING, whose license from our Mr. WILDER to make and sell the same expired on the 2d of September, 1854. Our Safes are all manufactured under the personal superintendence of our Mr. WILDER, "THE ORIGINAL PIONEER" of the

GENUINE SALAMANDER SAFE;

and we are now prepared to furnish THE BEST MADE AND THE BEST FINISHED SAFE IN THE WORLD, combining all the requisites for a SAFE THAT IS A SAFE. UPWARDS OF 26,000 of the Wilder Patent Salamander Safes have been made and sold in the United States; and in almost every large fire that has taken place during the past twelve years, these Safes have been subjected to the severest tests, and NOT ONE of the

"GENUINE SALAMANDERS"

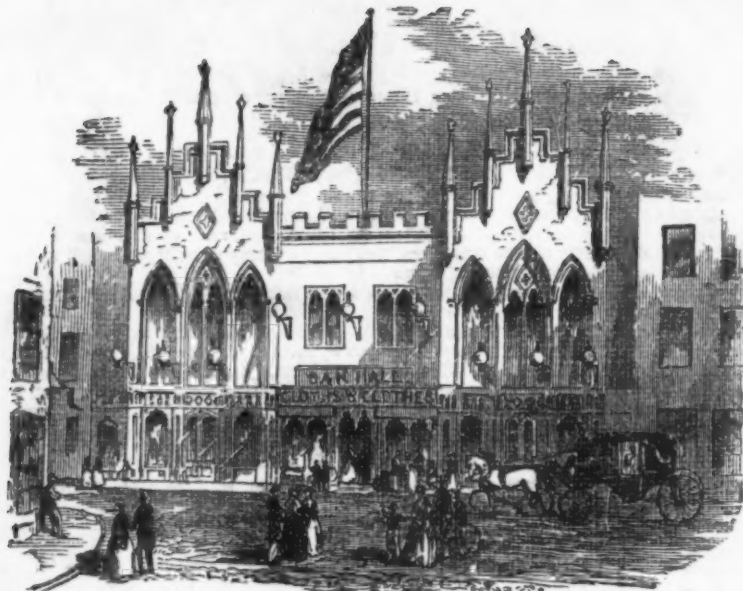
has ever been destroyed.

Buyers are particularly invited to call and examine our Safes.

Depot, 122 Water-street (near Wall-st.), New-York.

MANUFACTORY, Third Avenue, corner of 13th-street, Brooklyn

B. G. WILDER & CO., Patentees and Manufacturers.



VISIT OAK HALL, THE PIONEER CLOTHING HOUSE,

Established in Boston, Mass., in 1841.

Gentlemen's, Youths', and Little Children's **CLOTHING, FURNISHING GOODS, HATS, CAPS, &c.**
of every variety, at Wholesale and Retail.

This House, which fully sustains its enviable position, is daily receiving large supplies of recently manufactured reasonable clothing. Dealers, Travelers, and resident Citizens will find every thing to meet their demands, at prices defying competition.

Parents are reminded that the spacious Rotunda is devoted to the sale of

BOYS' CLOTHING ONLY!

Convenient Rooms and every facility may here be found for fitting Garments to Children.

Nos. 28, 30, 32, 34, 36, and 38 North Street, Boston, Mass.

ARTHUR'S CELEBRATED PATENT SELF-SEALING FRUIT CANS AND JARS.

TWO MEDALS AND FIVE DIPLOMAS ALREADY AWARDED.



Used last year by thousands of families, hotel and boarding-house keepers with the most complete success. All kinds of ripe fruit, tomatoes, etc., may be kept in them with **THEIR FRESH FLAVOR UNIMPAIRED.** By their use every housekeeper may secure for the winter season a supply of all the delicious summer fruits, such as **STRAWBERRIES, RASPBERRIES, APRICOTS, PLUMS, CHERRIES, PEACHES, BLACKBERRIES,** etc., in a condition so far superior to ordinary preserves that no one who has used them for a single season will ever go back to the old, more troublesome, and more costly method.

Full directions for putting up all kinds of fruit accompany these cans and jars. The operation is exceedingly simple, and **THE RESULT CERTAIN,** where the directions are observed.

The cans are made of tin, and the jars of finely-glazed fire-proof yellow-ware. They **nest,** to secure economy in transportation.

The sizes are—of tin, pint, quart, half-gallon, and gallon: of fire-proof ware, pint and quart.—They sustain no injury in opening, and may be used year after year.

TESTIMONIALS.

We have used for some time, and are still using, both at the Girard and La Pierre Houses, Arthur's Patent Self-Sealing Cans, for putting up fresh fruit, tomatoes, etc., and find them, in all respects, admirably adapted to the purpose. * * * They possess many advantages over all other Cans that we have seen. * * * Having tried and proved them, we can speak confidently of their value.

PRESBURY & BILLINGS,

Proprietors Girard and La Pierre Houses, Philada.

ARTHUR'S SELF-SEALING CANS.—From all quarters we hear the best accounts from these self-sealing cans. They are turning out admirably. Scores of our personal friends have used them, and are now luxuriating in fresh fruit and tomatoes.

There were a variety of self-sealing cans offered to the public last year, and there will, in all probability, be a greater number during the coming season. Not one that we have seen bears any comparison, in our estimation, with "Arthur's;" and our advice to all is, to try no other can or jar next year.—*Godey's Lady's Book.*

Every variety of summer fruit was put up in these cans in our family last season, and we now have *strawberries, raspberries, plums, cherries, blackberries, peaches, tomatoes,* etc., as fresh as when sealed up. These are indeed, luxuries, and may be secured by every one at a small cost.—*Arthur's Home Magazine.*

SIZES AND MATERIALS.

TIN CANS.—Pint, quart, half-gallon, and gallon.

FIRE-PROOF YELLOW WARE JARS.—Pint and quart.

The Cans and Jars **NEST,** to secure economy in freight.

Manufactured and for Sale Wholesale and Retail by

ARTHUR, BURNHAM, & CO., North-east Corner Tenth and George-sts., Phil.
EDW. P. TORREY, MANUFACTURER'S AGENT, 6 Platt-st., N. Y.

TERMS FOR ADVERTISING:

\$1.00 a half-square; \$1.50 a square; \$5.00 a quarter page; \$8.00 a half page; \$15 00 a page, for the first insertion, and 25 per cent. off for each subsequent insertion. A square consists of 12 lines, single width columns.

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SOMETHING WORTH KNOWING. The two patent rights of Fenwick and Boeklen's Hand Corn Planter for sale, at \$2,000. State rights from \$100 to \$150. County rights and one machine, \$20. FENWICK & BOEKLEN, New-York City.

IMPORTANT TO ALL.

We are happy to announce to our readers, that Dr. **WESLEY GRINDLE**, of New-York, so justly renowned for his unprecedented success in the treatment of Pulmonary Diseases, has, by the earnest solicitation of the people of this community, established a house in Philadelphia, No. 70 South Third Street. His house in New-York is No. 54 White Street. The business here is conducted by his brother and partner, **JOSHUA S. GRINDLE**. The Doctor will be here himself, on Thursday of every week, for consultation.

His remedy, from what we have seen and heard, seems to be a remarkable cure for that hitherto terrible foe to human happiness and life—**PULMONARY CONSUMPTION**! Hundreds have actually been permanently cured, who were pronounced incurable by the most skillful physicians, and given up to die. It is, no doubt, a fact, and statistics are being collected to prove the assertion, that in towns where Dr. Grindle's medicine has been and is being used, the mortality from this disease has greatly diminished! And in exact proportion to the sale of the medicine, there has been an astonishing decrease in the number of deaths from Consumption.

This, then, is no quack nostrum, but a great remedy! And we can not too earnestly recommend it for the cure of all pulmonary complaints, and do candidly advise the afflicted to obtain it at once. Dr. Grindle has persevered until, at last, we verily believe he has found the very remedy that was designed by Providence for this disease. Reader, do not allow your friends to fall into early graves, when you have the means within your reach to snatch them from that frightful doom!

For the gratification of our readers, we quote the Doctor's following prices:—One box, \$3; three boxes, ordered at one time, \$8; half dozen, \$14; one dozen, or any number greater, \$2 a box. The postage in the United States, not over 3000 miles, is fifteen cents a box; over 3000 miles, fifty cents a box. In all cases where the postage must be prepaid, the amount should be enclosed in money or stamps. We are authorized to say, that all orders addressed to Dr. W. Grindle & Bro., Philadelphia, or New-York, will receive prompt attention.

—Philadelphia City Item.

C. A. DURGIN, MECHANICAL ENGINEER AND SOLICITOR OF PATENTS.

Caveats, Specifications, Assignments, and all necessary papers and drawings for procuring Patents, in this and foreign countries, prepared. Advice given on legal matters respecting inventions and infringement of Patents.

Assignments recorded at Washington, and all legal papers pertaining to Patents executed with care and promptness.

Sales of good Patents negotiated on reasonable terms.

Inventors stuck with good inventions will be assisted and Patents secured on shares.

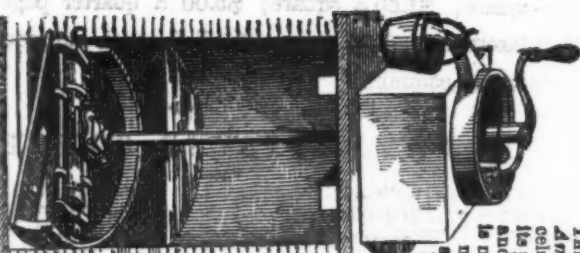
N.B.—Persons wishing to secure Patents will please send for circular.

C. A. DURGIN, Solicitor of Patents.

335 Broadway, (Room 2,) New-York City.

Lindsey's Double-Acting

ROTARY FORCE PUMP.



This pump has just been patented in America and England, and far exceeds any pump heretofore invented; its peculiarities are simplicity, power, and cheapness. Its simplicity; there is nothing about it but iron and cast metal, and it can be taken apart and put up by any one, and will last for an age. It has the power to raise water hundreds of feet, with the extra expense of \$3 and the price of pipe. Water rises in it by hand 100 feet per minute! For cheapness; a No. 1. pump (for all ordinary purposes) complete, and fifty feet of pipe, costs but \$30! The handle at the top, turns the pipe and pump, and every revolution fills the cylinder twice, affording an abundant supply of water with the least possible expense and labor. It is peculiarly adapted to deep wells, rail road stations, mill works, mining and manufacturing purposes. Wherever it is introduced, the old force suction and chain pumps will disappear. Practical and scientific men pronounce it as without an equal, for all that is here claimed for it. The Scientific American, after seeing it in operation, says: "This pump is very simple in construction, not liable to get out of order, durable, easily operated and economical; we regard it as an excellent improvement." Circulars with an accurate drawing and full description sent free of charge to all parts of the country. No. 1, has a one inch pipe; No. 2, 1 1/4 inches; No. 3, 1 1/2 inches; and the prices \$30, \$42, \$54; the No. 3 and 3 are designed for very deep wells, railroad stations, etc. where much water is required. The subscriber is the general agent for the sale of these pumps to all parts of the world, and exclusive agent for New York. Orders must be accompanied by the cash, and should be explicit as to the kind of pump wanted, depth of well, shipping address, &c. They will meet prompt attention. A pump and pipe weighs about 170 lbs. No charge for shipping or cartage. Wells over 50 feet should have extra gearing, which costs \$3.

JAMES M. EDNEY,
Comm. Merchant, 56 John St. N. Y.
For sale by H. LINDSEY, Inventor, Asheville, N. C.

SMITH AND CROCKER,

Manufacturers and Wholesale and Retail Dealers in

MEN AND BOYS' CLOTHING,

Nos. 35 and 37 NORTH STREET, BOSTON.

This is one of the largest Fashionable READY-MADE CLOTHING ESTABLISHMENTS in the city, and contains every variety of

GARMENTS, MADE IN THE BEST STYLE,

and at the cheapest rates.

Purchasers at wholesale or retail are requested to call and examine for themselves.

Particular attention directed to Custom Work.

International Hotel, April 4, 1856.

This is to certify that I purchased 200 of of Messrs. TAYLOR & HODGETT's "Infallible Fruit Cans," for the purpose of putting up different kinds of Fruits. The result of my experience is, that I found Messrs. TAYLOR & HODGETT's Can, to answer every purpose desired. I found the sealing was as perfect and infallible as if soldered by a tinner.

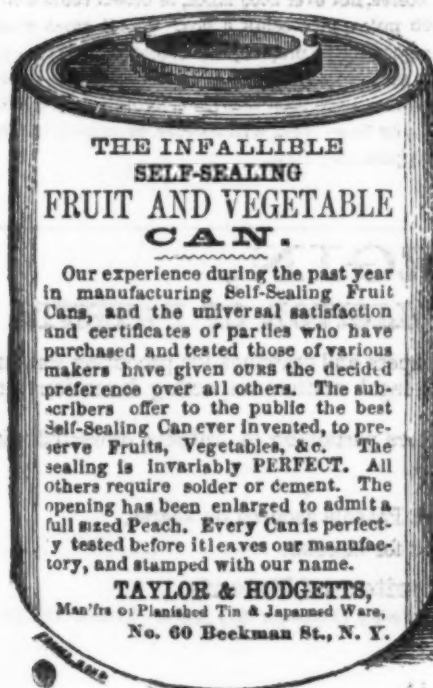
JOHN TAYLOR,

Taylor's Saloon, Broadway, N. Y.

SAVE YOUR STRAWBERRIES.

From the Railway Republican.

We commend to the special attention of families, hotel keepers, &c., an advertisement in another column, headed "An Infallible Self-Sealing Fruit and Vegetable Can, &c." We fully tested this article last year, and found it then all it was represented to be, and as we understand it has been decidedly improved of late, we are very much under the impression that it must be now infallible, as the advertisement states. Our readers will do well to supply themselves with this invaluable article.

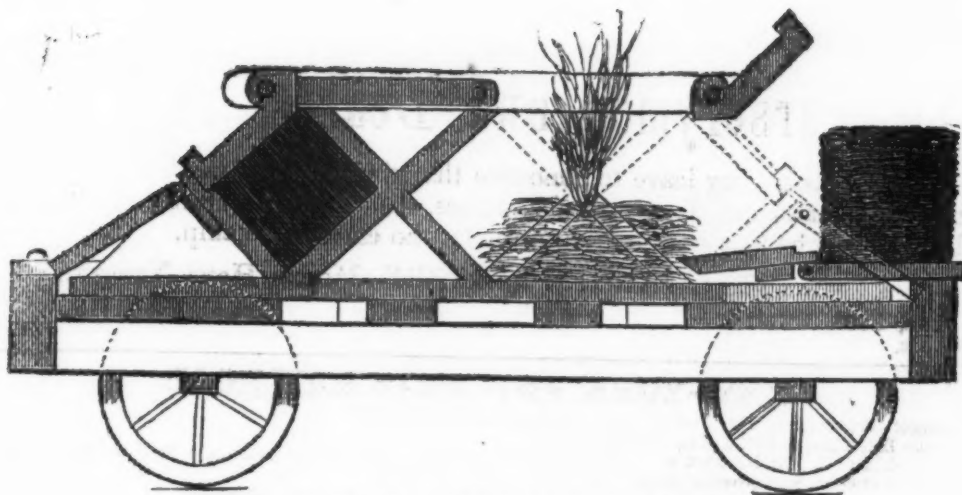


THE INFALLIBLE SELF-SEALING FRUIT AND VEGETABLE CAN.

Our experience during the past year in manufacturing Self-Sealing Fruit Cans, and the universal satisfaction and certificates of parties who have purchased and tested those of various makers have given ours the decided preference over all others. The subscribers offer to the public the best Self-Sealing Can ever invented, to preserve Fruits, Vegetables, &c. The sealing is invariably PERFECT. All others require solder or cement. The opening has been enlarged to admit a full sized Peach. Every Can is perfectly tested before it leaves our manufactory, and stamped with our name.

TAYLOR & HODGETTS,

Makers of Planished Tin & Japanned Ware,
No. 60 Beekman St., N. Y.



MANNY'S Patent Portable Hay and Cotton Press,

PATENTED April 17, 1855; being a Horizontal, Vibrating, Lever Press, constructed on Wheels; is readily drawn from place to place, and worked with great facility; the Press being filled at one end while the Bale is being hooped at the other, and *vice versa*; pressing a Bale at each vibration of the Levers; and, as is apparent, capable of doing a great amount of work, and designed to fully meet the wants of the public.

All Orders and Communications addressed to P. MANNY, Wadon's Grove, Ill., punctually responded to.

P. MANNY.

GOLD MEDAL PIANO-FORTES.

THREE

WITHIN

First Premiums



One Year.

STEINWAY & SONS, MANUFACTURERS,

84 Walker St., near Broadway, New-York,

Received three first-prize medals within the last year, in competition with the most celebrated manufacturers of Boston, New-York, Philadelphia, and Baltimore.

These Piano-Fortes combine all the modern improvements, and are warranted for three years in all respects, and a written guarantee given to that effect. Prices moderate.

Willis's Patent Stump Puller.

This is a Machine of vast power; and for extracting stumps, large or small, it has no equal. It will take out from twelve to twenty an hour, without difficulty, and with but a single yoke of oxen. It is also the best Machine yet invented for moving buildings.

All progressive men who desire to bring their waste lands at once into market, or a state of fertility, are invited to address or call on the patentee, WM. W. WILLIS, Orange, Mass., or John Reynolds, at C. M. Saxton & Co.'s, No. 140 Fulton Street, N. Y., where a working model may be seen, and other information obtained.

June, 11.

To Nurserymen and Dealers in Trees.

THE subscribers beg leave to announce that their Wholesale-Priced Catalogue of Fruit and Ornamental Trees, Shrubs, Roses, &c., for the Autumn of 1856, is now ready, and will be sent free to all applicants who enclose a stamp.

ELLWANGER & BARRY, MOUNT HOPE NURSERIES,

July 15th, 1856.

ROCHESTER, N. Y.

AUG. 18.

NEW-YORK AND ERIE RAILROAD.

Passenger Trains leave Pier foot of Duane Street, as follows, viz:

BUFFALO EXPRESS, at 6.00 A. M., for Buffalo.

MAIL, at 8.15 A. M., for Dunkirk and Buffalo and intermediate Stations. Passengers by this Train will remain over night at Owego, and proceed the next morning.

WAY PASSENGER, at 4.00 P. M., for Newburg and Otisville, and intermediate Stations.

NIGHT EXPRESS, at 5.00 P. M., for Dunkirk and Buffalo.

EMIGRANT, at 6.00 P. M., for Dunkirk and Buffalo and intermediate Stations.

ON SUNDAY ONLY ONE EXPRESS TRAIN LEAVES JERSEY CITY AT 5.30 P. M.

These Express Trains connect at Elmira, with the Elmira and Niagara Falls Railroad, for Niagara Falls; at Buffalo and Dunkirk with the Lake Shore Railroad for Cleveland, Cincinnati, Toledo, Detroit, Chicago, &c., and with first class splendid steamers for all ports on Lake Erie.

D. C. McCALLUM, General Sup't.

MERCHANTS' LINE OF STEAMERS BETWEEN ALBANY and NEW-YORK,

Through without landing, and connecting with the N. Y. Central and other Western Railroads, and the Albany Northern Railroads.

The steamers KNICKERBOCKER, Capt. Wm. B. Nelson, and HENDRICK HUDSON, Capt. Curtis Perh. will leave Albany, from the Steamboat Landing, daily, at 7 P. M., on arrival of Express Trains of Cars, and New-York, from Pier foot of Robinson st., at 6 P. M.

Freight received at low rates. The Merchants' Line, as agents for the owners of Freight, will forward to and from North and the West with promptness, fidelity, and despatch. Freight by any of the Railroads, consigned to the Line, will receive prompt attention, and special care.

For Freight or Passage apply on board the steamers at their landings, or to G. W. STEVENS, Agent, 282 Broadway, Albany; ELI HUNT, Agent, at the office, foot of Robinson st. New-York.

FOR BOSTON, VIA NEWPORT AND FALL RIVER,

By the splendid and superior steamers "Metropolis," "Empire State," and "Bay State," of great strength and speed, particularly adapted to the navigation of Long Island Sound, running in connection with the Fall River and Old Colony Railroad, a distance of 53 miles to Boston, only.

Leave Pier No. 3, N. R., near the Battery.

The steamer BAY STATE, Captain Thomas J. Jewett, on Mondays, Wednesdays, and Fridays, at 4 o'clock P. M., touching at Newport each way. The steamer METROPOLIS, Capt. Wm. Brown, on Tuesdays, Thursdays, and Saturdays, at 5 o'clock P. M., touching at Newport each way.

These steamers are fitted up with commodious state rooms, and every arrangement for the security and comfort of the passengers, who are afforded by this route a night's rest on board, and, on arrival at Fall River, proceed per Steamboat train, reaching Boston early on the following morning, or may remain on board and take the accommodation train at 6½ A. M., and reach Boston about 8¼ A. M.

A baggage master is attached to each steamer, who receives and tickets the baggage, and accompanies the same to its destination.

A steamer runs in connection with this line to and from Providence, daily, except Sundays.

Freight to Boston is forwarded through with great despatch by an Express Freight Train, &c. &c.

For freight or passage apply on board, or at the office on Pier 3, North River, where state rooms and berths may be secured. Hereafter no rooms will be regarded as secured by any applicant until the same shall have been paid for.

For further information, apply to

WM. BORDEN, Agent, 70 and 71 West street.

PENNSYLVANIA RAILROAD.

TRAINS leave Philadelphia for Pittsburg, and intervening Stations, at 7.30 A.M., (Mail;) 12.30 P.M., (Exp.) and 11 P.M., (Exp.)

EASTERN TRAVEL.

EASTERN RAILROAD.—Trains leave Boston for Salem, 7.30, and 10.30, A.M., 12 M., 2.30, 3.50, 4.30, 5, 5.45, 6.15, and 7.15, P.M. Through to Portland, 7.30 A.M., and 2.30, 5, P.M. From Portland to Boston, leave 8.45 A.M., and 2.45 and 4.35, P.M.

BUFFALO AND ERIE RAILROAD.

FOUR Trains leave the Depot of the New-York Central Railroad, at Buffalo, for Chicago, daily, Sundays excepted, as follows:

7 A. M.—Express.

10.40 A. M.—Lightning Express.

4 P. M.—Accommodation.

11 P. M.—Night Express.

Running through direct to Chicago, via Cleveland and Toledo.

ATKINS' AUTOMATON; or, Self-Raking Reaper and Mower. BEST MACHINE IN USE.

1 (the first) used in 1852. 40 used successfully in 1853. 300 in twenty different States in 1854. 1200 in all parts of the Union in 1855.

3000 building for the harvest of 1856.

THERE are six good reasons for this unparalleled increase and great popularity:—1st. It is strong and reliable, and easily managed. 2d. It saves the hard labor of Raking. 3d. It saves at least another hand in binding. 4th. It saves snatching by the careful handling in raking; besides, the straw being laid straight, it is well secured in the sheaf, and does not drop in the after handling, and the heads are not exposed in the stack, so that the GRAIN saving even exceeds the LABOR saving. 5th. It is a good Mower, being one of the best convertible machines in use. 6th. It has a knife that does not choke.

Its other excellencies, too numerous to mention here, are fairly given in the circulars. Its intrinsic worth is also attested by the award (mostly in only three years) of

OVER 70 FIRST PREMIUMS!

PRICE.—REAPER AND MOWER, \$200.—\$75 on its receipt, \$75 first September, and \$50 first December. Price of SELF-RAKING REAPER, only \$175. Considerable saving in freight to those at a distance who order prior to 1st March; also liberal discount for advance payment.

To secure a machine, order immediately. Though so little known the past season, and none ready for delivery till 1st May, yet not two-thirds the customers could be supplied. The reputation of the Machine is now widely established, so that THREE THOUSAND will not as nearly supply the demand as twelve hundred did last year, and we shall also be selling four months earlier.

Order early, if you would not be disappointed.

PAMPHLETS giving IMPARTIALLY the OPINIONS OF FARMERS, together with orders, notes, &c., mailed to applicants, and pre-paid.

Write to us at CHICAGO, (Ill.), DAYTON, (Ohio,) or BALTIMORE, (Md.), whichever is nearest to you.

J. S. WRIGHT & Co.

"Prairie Farmer" Works, Chicago, Dec. 1st, 1855.

SUPER PHOSPHATE OF LIME MANURE.

C. B. DE BURG

Has the pleasure of announcing to his former patrons and other farmers who may wish to improve their Soils, that he has during the past year succeeded in manufacturing from the Gas Works around the city, a superior quality of Sulphate of "Ammonia," in large quantities, and he is now prepared to furnish

C. B. De Burg's Super Phosphate of Lime,

highly charged with "Ammonia," which, from experiments made by scrupulous experimentors, is now acknowledged to be the most valuable element in all kinds of Organic and Artificial Fertilizers. Public State Agricultural Societies, and distinguished Farmers tried many experiments the past season with his preparation side by side of Peruvian Guano and other concentrated Manures, with universal success—detailed accounts of these will shortly be placed before the public for examination. The proprietor is working for future and lasting reputation, and begs to assure his friends that he will spare no pains or efforts to make every package of "Super Phosphate" bearing his name, just what it purports to be.

To avoid imposition or deception being practised, henceforth all packages will be distinctly marked, "C. B. De Burg's No. 1, Super Phosphate of Lime."

Pamphlets, with instructions for use, etc., will be forwarded on application to

C. B. DE BURG, SOLE PROPRIETOR,

at

WILLIAMSBURGH, LONG ISLAND, NEW-YORK.

MANHATTAN LIFE INSURANCE COMPANY,

146 BROADWAY, N. Y., CORNER OF LIBERTY STREET.

CASH CAPITAL AND ACCUMULATION, \$350,000.

\$100,000 deposited with the Comptroller of the State for the security of all policy holders. Persons insuring with this company, will be entitled to their pro rata share of the dividends. The rates and principles adopted have stood the test of experience, and must secure, beyond contingency, the object for which Life Insurance is effected—immediate and permanent aid to the WIDOW AND ORPHAN.

C. Y. WEMPLE, Secretary.

N. D. MORGAN, President.

ABRAM DU BOIS, M. D., Medical Examiner, attends at the office daily, from 2 to 3 o'clock P.M. Prospectuses to be had at the office, gratis.

IRON FURNITURE.



NEW-YORK
BERLIN IRON FURNITURE WORKS,
51 GREEN STREET.

Between Grand and Broome, New-York.

The subscriber invites attention to his stock of **ORNAMENTAL AND USEFUL IRON FURNITURE**, consisting in part of

Bedsteads, highly ornamented, in great variety.

" for Seminaries and Schools,

" for Hotels, Servants, and Hospitals.

(Public Institutions supplied at the lowest terms.)

Marble and Patent Marble Top Tables, Bronze and Gilt.

Children's Cribs, Cradles and Bedsteads.

Hat, Coat and Umbrella Stands, of every style.

Hall, Garden, and Cemetery Settees and Chairs.

Store Stools always on hand, as also an endless variety of plain, useful and *recherche* articles.

Bedding, Spring, Hair, Husk, and Straw Mattresses, of all sizes, on hand.

Purchasers at this establishment can have their Goods Repaired, Re-Gilt, or Re-Bronzed, at the lowest prices.

CHARLES H. SANDFORD,

51 GREEN STREET.



SALAMANDER SAFE.

TILTON & MCFARLAND,

172 Broadway, cor. Maiden Lane, New-York,

OFFER THEIR

FIRE AND BURGLAR PROOF SAFES

To the public, as superior to any manufactured in the world, either for **FIRE OR BURGLAR PROOF** qualities; and are warranted entirely **FREE FROM DAMPNESS**, which is not the case with many others manufactured here. Of the thousands sold by us, not one of the many that have been tested in actual fires of the most intense heat, have the

BOOKS OR PAPERS SUFFERED THE LEAST!

Nor have Burglars, after repeated attempts, ever been able to pick our **POWER AND BURGLAR PROOF LOCKS**. These Safes have the precedence in the Government Offices at Washington, and are introduced in preference to others in the Patent Office, for the safe deposit of Government Jewels.

Purchasers are invited to call, examine, and compare prices and qualities with other manufacturers'.

172 BROADWAY, New-York.

14 HOWARD ST., Boston, Mass.

18 EXCHANGE ST., Portland, Me.

145 PLATT ST., Baltimore, Md.

69 MARKET ST., Nashville, Tenn.

90 BATTERY ST., San Francisco, Cal.

STEVENS'

CELEBRATED PATENT BROAD-CAST AND DRILL SEED-SOWER,

For Wheat, Rye, Oats, Barley, Buckwheat, Hemp, Flax, Cotton, and Rice; also, all kinds of Grass-Seeds, together with Guano, Lime, Plaster, Bone-Dust and Ashes; Corn, Peas, and Beans, when not planted in hill.

So simple and cheap an agricultural implement, it is believed, has never before been offered to the public.

The great amount of labor and the large per centage of seed saved by the use of this machine, make it for the interest of every farmer, of however limited means, to own one.

There being no valves to clog, or machinery of any kind to look after, the cheapest of help can operate it with facility.

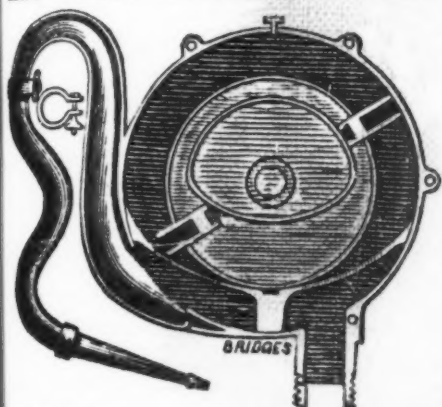
A hand-machine, costing only \$35, will sow from twelve to fifteen acres daily; larger machines, using one or more horses, will sow from fifty to one hundred acres daily, and do the work in such manner, that the same quantity of seed will lie upon each square foot, rod, or acre of soil.

For further information, or rights to manufacture and use, address

Mar. 6th, 18

WM. S. SAMPSON, Proprietor, Boston, Mass.

A. W. CARY'S ROTARY FIRE-ENGINE PUMPS.



The Inventor, after thoroughly testing this engine pump, for the past two years, feels confident that it is not equalled by any thing now in market, in the way of raising or forcing water; the motion being rotary, the stream is constant, without the aid of an air vessel. The packing is self-adjusting, very durable, and can not well get out of order.

These pumps are well calculated for all the purposes for which pumps or hydrants may be used, viz., Factories, Steamboats, Tanneries, Breweries, Distilleries, Railroads, Water Stations, Hotels, Mines, Garden Engines, &c.

Among the many testimonials given of this pump, is a gold medal awarded at the last great Fair of the American Institute.

No. 1 is a house or well pump and domestic Fire Engine, and will raise from 20 to 30 gallons per minute.

No. 2 will raise 100 gallons at 120 revolutions.

No. 2½ " 200 " 120 "

No. 3 " 300 " 120 "

The quantity raised can be doubled, by doubling the revolutions. These machines are manufactured and sold by the subscribers at Brockport, N. Y.; also in this city, 240 Broadway.

CARY & BRAINERD.

Sept. 18-ly.

CHEAP AND USEFUL BOOKS FOR FARMERS.

THE STABLE BOOK.	\$1 00
YOUATT AND MARTIN ON CATTLE.	1 25
ALLEN'S DISEASES OF DOMESTIC ANIMALS.	75
YOUATT ON THE HORSE.	75
ALLEN'S FARM BOOK.	1 00
ALLEN'S RURAL ARCHITECTURE.	1 25
ELLIOTT'S FRUIT GROWER.	1 25
BURST'S KITCHEN GARDEN.	75

With many other Works on Agriculture, sent by mail, postage paid, on receipt of price. Catalogues sent to all who favor us with their names and address.

It.

C. M. SAXTON & Co., 140 Fulton Street, N. Y.

ARTHUR'S CELEBRATED PATENT SELF-SEALING FRUIT CANS AND JARS.

TWO MEDALS AND FIVE DIPLOMAS ALREADY AWARDED.



Used last year by thousands of families, hotel and boarding-house keepers with the most complete success. All kinds of ripe fruit, tomatoes, etc., may be kept in them with THEIR FRESH FLAVOR UNIMPAIRED. By their use every housekeeper may secure for the winter season a supply of all the delicious summer fruits, such as STRAWBERRIES, RASPBERRIES, APRICOTS, PLUMS, CHERRIES, PEACHES, BLACKBERRIES, etc., in a condition so far superior to ordinary preserves that no one who has used them for a single season will ever go back to the old, more troublesome, and more costly method.

Full directions for putting up all kinds of fruit accompany these cans and jars. The operation is exceedingly simple, and THE RESULT CERTAIN, where the directions are observed.

The cans are made of tin, and the jars of finely-glazed fire-proof yellow-ware. They nest, to secure economy in transportation.

The sizes are—of tin, pint, quart, half-gallon, and gallon: of fire-proof ware, pint and quart.—They sustain no injury in opening, and may be used year after year.

TESTIMONIALS.

We have used for some time, and are still using, both at the Girard and La Pierre Houses, Arthur's Patent Self-Sealing Cans, for putting up fresh fruit, tomatoes, etc., and find them, in all respects, admirably adapted to the purpose. * * * They possess many advantages over all other Cans that we have seen. * * * Having tried and proved them, we can speak confidently of their value.

PRESBURY & BILLINGS,

Proprietors Girard and La Pierre Houses, Philada.

ARTHUR'S SELF-SEALING CANS.—From all quarters we hear the best accounts from these self-sealing cans. They are turning out admirably. Scores of our personal friends have used them, and are now luxuriating in fresh fruit and tomatoes.

There were a variety of self-sealing cans offered to the public last year, and there will, in all probability, be a greater number during the coming season. Not one that we have seen bears any comparison, in our estimation, with "Arthur's;" and our advice to all is, to try no other can or jar next year.—*Godey's Lady's Book*.

Every variety of summer fruit was put up in these cans in our family last season, and we now have strawberries, raspberries, plums, cherries, blackberries, peaches, tomatoes, etc., as fresh as when sealed up. These are indeed, luxuries, and may be secured by every one at a small cost.—*Arthur's Home Magazine*.

SIZES AND MATERIALS.

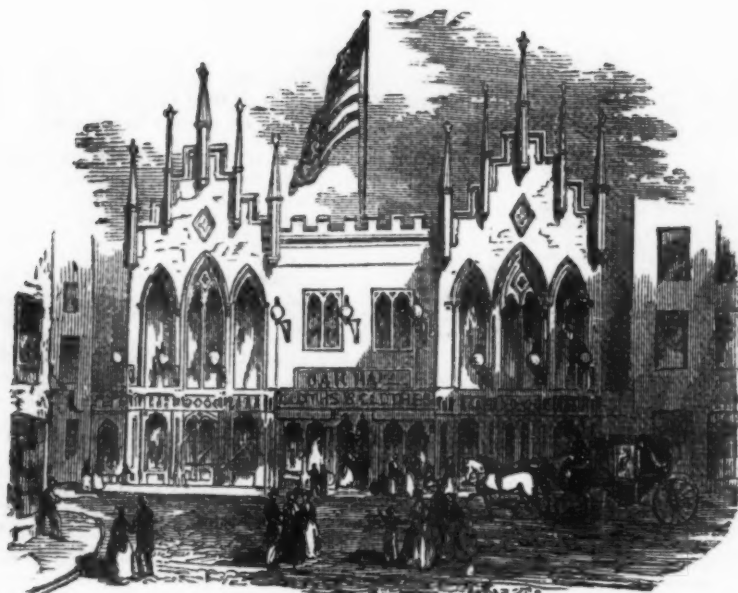
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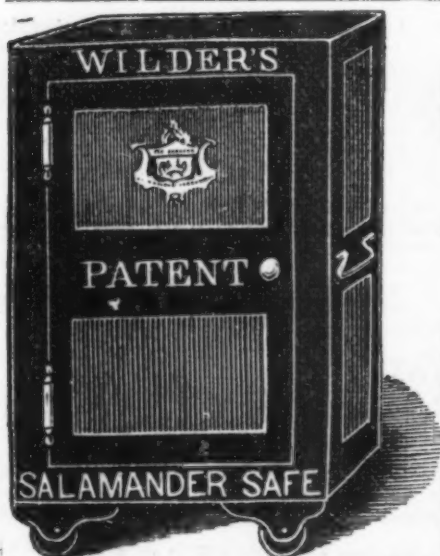
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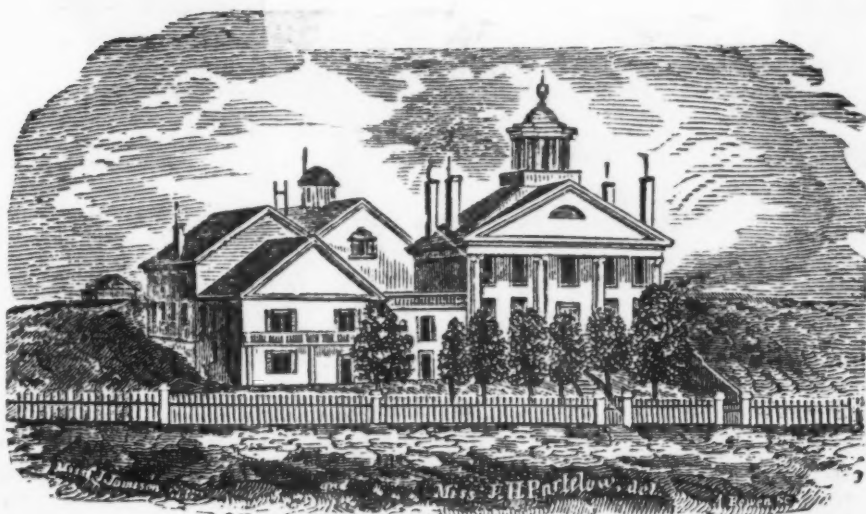
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THE HUMAN TEETH.

I HAVE to record here an example of the success of genius, added to that indomitable perseverance which genius only can command, in reference to the subject which heads this article. I do it the more readily, as in one of the first numbers of the Journal an intimation was given that an occasional page would be devoted to the preservation of the Teeth, as an important means, not only of preserving the health, but of maintaining personal beauty. Has the reader ever seen Queen Victoria and a—squirrel? What would she not have given to have had a set of teeth less like the front ones of the lively little animal named?

Some long years ago I knew Dr. A——to be laboring after the *ne plus ultra* of dentistry; but week after week, month after month, year after year, he labored on in his workshop, where the white heat of his furnace seemed almost sufficient to burn his eyes out, or blind them with its glare. And whether in December or July, there was the same toil, the same cheerful hopefulness, if not actual confidence of success, as his motto seemed to be, that "what ought to be done could be done," and he was going to do it. Since I knew him to be thus engaged he has grown bald, and age and wrinkles have come; but they have brought with them an enduring triumph. The result of this discovery and invention—for it is both—is simply this: that false teeth can be made, including gums, which can be used with comfort in eating; the acids of the mouth can not corrode them, while the teeth themselves are so strongly clasped by the artificial gum that it is altogether impracticable for a particle of food or the most penetrating liquid to get between them; hence the mouth and the breath can be kept sweeter and cleaner than if the teeth were all natural. This close fitting has never been accomplished before, because of the artificial gum which is used to bind them together. In fact, a set of artificial teeth with gums is made, which, for beauty, endurance, cleanliness, distinct articulation, comfortableness in mastication, expression, length, form, and shade, has never been equalled in this or any foreign country I have ever visited.

None of the ingredients employed admit of being tarnished or corroded in the mouth, while the fusing substance, capable of any desired tint of artificial coloring, renders the whole as firm as a solid bone, and, when necessary, can be so formed as to restore sunken cheeks to their natural rotundity, and can be worn without appreciable discomfort, being kept in place wholly by atmospheric pressure.—Extract from Hall's Journal of Health.

This improvement, it seems, was patented by the inventor, Dr. J. ALLEN, now of Bond Street, New-York.

In consequence of infringements, a suit was recently tried in the United States Circuit Court for the Southern District of Ohio, in which the validity of the patent was sustained. With reference to this case, the Cincinnati Gazette has the following:

"This important case, involving a patent for one of the most valuable improvements known in the dental art, 'A New Mode of Setting Artificial Teeth on Metallic Plates, secured by John Allen, of Cincinnati, in December, 1851,' which Dr. W. M. Hunter, also of our city, was alleged to have infringed, came to a conclusion on Saturday evening, after a long and able closing argument by Henry Stanbery, and charge of Judge McLean. This trial occupied eight days during which time fifty-seven depositions were read, and thirty-one persons were examined before the jury. The testimony in this case was from men of the highest character in the dental and chemical professions of our own city, and from various cities in the United States and in Europe. Great interest was felt in this case in both countries, as letters patent had been secured in each, by the plaintiff, for this improvement.

"The defendant plead the general issue, which involved the questions of priority, sufficiency of specifications, utility, etc. As to priority, the plaintiff showed by numerous witnesses that he had been prosecuting his experiments for a number of years, to get a compound that would unite single teeth to each other and to the plate upon which they were set, so as to form a continuous artificial gum. Dr. Geo. L. Weed testified that he lived second door to Dr. Allen, and knew that he had been experimenting for at least ten years to accomplish what he had at length obtained; that he often saw him working at it very late at night with undimmed zeal to accomplish his object; had seen specimens of work, from time to time, until the date of his patent; and that he had tested the work with a full set made for his wife, and considers it incomparably superior to the old method.

"Dr. A. Curtis, of Cincinnati, deposed that he had known Dr. Allen to have been working at this improvement for some ten years; had often been in his laboratory during that time, and had seen specimens of his work, with an artificial gum flowed upon the teeth and plate. Dr. J. McCullum, of Augusta, Ky., had seen work of this kind done by Dr. Allen, in 1846.

"Mrs. Colonel Bartlett, of Covington, Ky., testified she had a full set of teeth made by Dr. Allen, with continuous gums fused upon the teeth and plate, in 1846 or '7, though not as perfect as a subsequent set made upon the same plan, which were exhibited in court, and appeared as perfect as when first made; had worn the old style, but considered the new far superior. Numerous other

THE HUMAN TEETH.

witnesses corroborated the foregoing testimony on those points

"Dr. S. S. Fitch, author of 'Fitch's Dental Surgery,' testified that he had seen Dr. Allen's continuous gum-work, and considered it far in advance of anything he had ever before witnessed in the dental line.

"Professor Silliman (senior), of New-Haven, testified that he had never seen any work of this kind until it was introduced by Dr. Allen; that he tested it in his family for some three years, and considered it 'pre-eminently' useful.

"Dr. James Robinson, of London, author of 'Robinson's Work on the Teeth,' testified that he had never seen any work of this kind until he saw Dr. Allen's; that he had become acquainted with it through his agent in London; that he regarded it as new and useful.

"Dr. J. S. Clark, of New-Orleans, testified that Delabarre had never perfected his plan of forming a continuous artificial gum, so as to be rendered practical; that he was acquainted with Dr. Allen's method; had tested it some two years or more; considered it new and very useful, and would not be without it for two thousand dollars; that he had a large and full practice, the largest in New-Orleans.

"Dr. James Taylor, Professor in the Ohio College of Dental Surgery, stated that Delabarre's method was never perfected or brought into practical use; that he considered Dr. Allen's new and useful; had never seen anything of the kind prior to his.

"Dr. E. Baker, of New-York City, had been in practice some forty years, but never saw any work of this kind prior to its introduction by Dr. Allen; was in the way of knowing it if anything of the sort had been previously in use.

"Dr. J. C. Colburn, of Newark, New-Jersey, had adopted this method exclusively in his practice during the last year; never saw anything or any work like it prior to its introduction by Dr. A.; thinks it far superior to any other method.

"Dr. S. P. Miller, of Worcester, Mass., testified that he had bought the right to use this method in his practice; had inserted between two and three hundred sets within the last three years, which have given entire satisfaction; that he had formerly made block work, but thinks Allen's method far superior to any other with which he was acquainted.

"Dr. J. Simmonds, of Providence, R. I., testified that he, in conjunction with Dr. Hawes, had constructed between four and five hundred sets upon Dr. Allen's plan, which have given general satisfaction; that this style of work is generally preferred in that vicinity to all others; that they formerly made block-work, but prefer the continuous gum.

"There were also many other witnesses who testified that they considered this method new, and far superior to any other.

"The patent continues valid in the hands of the patentee."

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LATE PROFESSOR IN THE OHIO COLLEGE OF DENTAL SURGERY, invites attention to his improved method of constructing Artificial Dentures, which combine the following advantages:

First.—There are no seams or crevices for the lodgment of food, to vitiate the saliva or infect the breath, as not even the slightest moisture can get between the teeth and plate.

Second.—An Artificial Gum, which is as firm and indestructible as the teeth, is fused, at a high heat, between and around their base, which unites them firmly to each other and to the plate upon which they are set. This gum imparts to the teeth that peculiar expression and life-like appearance which characterize the natural organs.

Third.—Great strength is thus obtained by uniting the Teeth, Gum, and Plate, and no ordinary force in masticating can break them from their base.

Fourth.—The NATURAL FORM AND EXPRESSION OF THE MOUTH AND FACE CAN BE RESTORED in cases where they have become sunken. This is done by means of additional attachments to the frame-work supporting the teeth. These attachments are so formed as to BRING OUT THE SUNKEN PORTIONS, and sustain them in their proper position. They are covered with the above named gum compound, and become component parts of the denture, and, when rightly formed, can not be detected by the closest observer. This method of RESTORING THE CHEEKS to their original fullness, and also the natural form and expression of the mouth and lips, has been well tested, having been made a special feature in the author's practice for several years past. A variety of Photographic and Daguerrotype likenesses, which have been taken of persons without this improvement, and with it, can be seen at this office, showing the great change in appearance which is produced in the countenances of individuals now wearing dentures constructed upon this principle, which the public are invited to call and examine, together with other specimens of his improved style of work not requiring the above attachments.

Fifth.—A clear and distinct articulation of speech is restored. This important change is effected by having the inside of the teeth and gum of a natural form. To this form the tongue is readily adapted. This perfect adaptation of the tongue to the denture prevents the hissing or muffled sounds in speaking or singing, so often observed in persons wearing artificial teeth.

Sixth.—The plates usually employed for this work are platina, the purity of which prevents even the slightest tarnish or unpleasant taste in the mouth. In short, this system embraces many new and important features, which are readily appreciated by those wearing artificial dentures upon this principle. With reference to the utility of this method, numerous testimonials can be given from eminent Dentists in the various cities of the Union, and persons wearing the work in this and other cities.

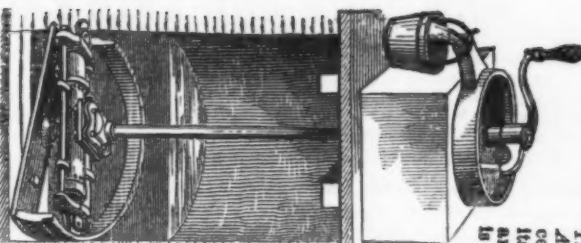
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Sept., 1856. *tf.*

DE BOW'S REVIEW.

The 20th volume of this work is completed with the June number of this year, which contains a very laborious General Index. The first series of the Review closed with 1851, and has been condensed into Industrial Resources. The second series embraces the volumes since published. A new series begins with July, 1856.

Price of the first series condensed, \$5 (3 vols.); second series, 10 volumes, if ordered immediately, \$20, handsomely bound; or \$15 if the numbers for February, 1851, July, 1852, August, 1855, and January, 1856, are returned.

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Through without landing, and connecting with the N. Y. Central and other Western Railroads, and the Albany Northern Railroads.

The steamers **KNICKERBOCKER**, Capt. Wm. B. Nelson, and **HENDRICK HUDSON**, Capt. Curtis Peck, will leave Albany, from the Steamboat Landing, daily, at 7 p. m., on arrival of Express Trains of Cars, and New-York, from Pier foot of Robinson st., at 6 p. m.

Freight received at low rates. The Merchants' Line, as agents for the owners of Freight, will forward to and from North and the West with promptness, fidelity, and despatch. Freight by any of the Railroads, consigned to the Line, will receive prompt attention, and special care.

For Freight or Passage apply on board the steamers at their landings, or to G. W. STEVENS, Agent, 282 Broadway, Albany; ELI HUNT, Agent, at the office, foot of Robinson st., New-York.

FOR BOSTON, VIA NEWPORT AND FALL RIVER,

By the splendid and superior steamers "Metropolis," "Empire State," and "Bay State," of great strength and speed, particularly adapted to the navigation of Long Island Sound, running in connection with the Fall River and Old Colony Railroad, a distance of 53 miles to Boston, only.

Leave Pier No. 3, N. R., near the Battery.

The steamer **BAY STATE**, Captain Thomas J. Jewett, on Mondays, Wednesdays, and Fridays, at 4 o'clock p. m., touching at Newport each way. The steamer **METROPOLIS**, Capt. Wm. Brown, on Tuesdays, Thursdays, and Saturdays, at 5 o'clock p. m., touching at Newport each way.

These steamers are fitted up with commodious state rooms, and every arrangement for the security and comfort of the passengers, who are afforded by this route a night's rest on board, and, on arrival at Fall River, proceed per Steamboat train, reaching Boston early on the following morning, or may remain on board and take the accommodation train at 6½ A. M., and reach Boston about 8½ A. M.

A baggage master is attached to each steamer, who receives and tickets the baggage, and accompanies the same to its destination.

A steamer runs in connection with this line to and from Providence, daily, except Sundays.

Freight to Boston is forwarded through with great despatch by an Express Freight Train, &c. &c.

For freight or passage apply on board, or at the office on Pier 3, North River, where state rooms and berths may be secured. Hereafter no rooms will be regarded as secured by any applicant until the same shall have been paid for.

For further information, apply to

WM. BORDEN, Agent, 70 and 71 West street.

THE REGULAR MAIL LINE via STONINGTON FOR BOSTON AND PROVIDENCE.

INLAND route, without delay, change of cars or baggage.

The Steamers **PLYMOUTH ROCK**, Capt. Joel Stone, and **C. VANDERBILT**, Capt. W. H. Frazee, in connection with the Stonington and Providence, and Boston and Providence Railroads, leaving New-York daily, Sundays excepted, from Pier No. 2, North River, first wharf above Battery-place, at 5 o'clock P. M., and Stonington at 8.30 P. M., or on the arrival of the mail train which leaves Boston at 5.30 P. M.

The **C. VANDERBILT**, from New-York, Monday, Wednesday, and Friday. From Stonington, Tuesday, Thursday, and Saturday.

The **PLYMOUTH ROCK**, from New-York, Tuesday, Thursday, and Saturday. From Stonington, Monday, Wednesday, and Friday.

Passengers proceed from Stonington, per Railroad, to Providence and Boston, in the Express Mail Train, several hours in advance of those by other routes, and in ample time for all the early morning lines connecting North and East. Passengers that prefer it remain on board the steamer, enjoy a night's rest undisturbed, breakfast if desired, and leave Stonington in the 6.45 A. M. train connecting at Providence with the 11 A. M. train for Boston.

A Baggage Master accompanies the Steamer and Train through each way.

For passage, berths, state-rooms, or freight, apply at Pier No. 2, North River, or at the Office, No. 10 Battery-Place.

PENNSYLVANIA RAILROAD.

TRAINS leave Philadelphia for Pittsburg, and intervening Stations, at 7.30 A. M., (Mail;) 12.30 P. M., (Exp.) and 11 P. M., (Exp.)

BUFFALO AND ERIE RAILROAD.

FOUR Trains leave the Depot of the New-York Central Railroad, at Buffalo, for Chicago, daily, Sundays excepted, as follows:

7 A. M.—Express.

10.40 A. M.—Lightning Express.

4 P. M.—Accommodation.

11 P. M.—Night Express.

Running through Direct to Chicago, via Cleveland and Toledo.

ATKINS' AUTOMATON; or, Self-Raking Reaper and Mower. BEST MACHINE IN USE.

1 (the first) used in 1852. 40 used successfully in 1853. 300 in twenty different States in 1854. 1200 in all parts of the Union in 1855. 3000 building for the harvest of 1856.

THERE are six good reasons for this unparalleled increase and great popularity:—1st. It is strong and reliable, and easily managed. 2d. It saves the hard labor of Raking. 3d. It saves at least another hand in binding. 4th. It saves shattering by the careful handling in raking; besides, the straw being laid straight, it is well secured in the sheaf, and does not drop in the after handling, and the heads are not exposed in the stack, so that the GRAIN saving even exceeds the LABOR saving. 5th. It is a good Mower, being one of the best convertible machines in use. 6th. It has a knife that does not choke.

Its other excellencies, too numerous to mention here, are fairly given in the circulars. Its intrinsic worth is also attested by the award (mostly in only three years) of

OVER 70 FIRST PREMIUMS!

PRICE.—REAPER AND MOWER, \$200,—\$75 on its receipt, \$75 first September, and \$50 first December. Price of SELF-RAKING REAPER, only \$175. Considerable saving in freight to those at a distance who order prior to 1st March: also liberal discount for advance payment.

To secure a machine, order immediately. Though so little known the past season, and none ready for delivery till 1st May, yet not two-thirds the customers could be supplied. The reputation of the Machine is now widely established, so that THREE THOUSAND will not as nearly supply the demand as twelve hundred did last year, and we shall also be selling four months earlier.

Order early, if you would not be disappointed.

PAMPHLETS giving IMPARTIALLY the OPINIONS OF FARMERS, together with orders, notes, &c., mailed to applicants, and pre-paid.

Write to us at CHICAGO, (Ill.), DAYTON, (Ohio,) or BALTIMORE, (Md.), whichever is nearest to you.

J. S. WRIGHT & Co.

"Prairie Farmer" Works, Chicago, Dec. 1st, 1855.

SUPER PHOSPHATE OF LIME MANURE.

C. B. DE BURG

Has the pleasure of announcing to his former patrons and other farmers who may wish to improve their Soils, that he has during the past year succeeded in manufacturing from the Gas Works around the city, a superior quality of Sulphate of "Ammonia," in large quantities, and he is now prepared to furnish

C. B. De Burg's Super Phosphate of Lime,

highly charged with "Ammonia," which, from experiments made by scrupulous experimenters, is now acknowledged to be the most valuable element in all kinds of Organic and Artificial Fertilizers. Public State Agricultural Societies, and distinguished Farmers tried many experiments the past season with his preparation side by side of Peruvian Guano and other concentrated Manures, with universal success—detailed accounts of these will shortly be placed before the public for examination. The proprietor is working for future and lasting reputation, and begs to assure his friends that he will spare no pains or efforts to make every package of "Super Phosphate" bearing his name, just what it purports to be.

To avoid imposition or deception being practised, henceforth all packages will be distinctly marked, "C. B. De Burg's No. 1, Super Phosphate of Lime."

Pamphlets, with instructions for use, etc., will be forwarded on application to

C. B. DE BURG, SOLE PROPRIETOR,

at

WILLIAMSBURGH, LONG ISLAND, NEW-YORK.

MANHATTAN LIFE INSURANCE COMPANY,

146 BROADWAY, N. Y., CORNER OF LIBERTY STREET.

CASH CAPITAL AND ACCUMULATION, \$350,000.

\$100,000 deposited with the Comptroller of the State for the security of all policy holders. Persons insuring with this company, will be entitled to their pro rata share of the dividends. The rates and principles adopted have stood the test of experience, and must secure, beyond contingency, the object for which Life Insurance is effected—immediate and permanent aid to the WIDOW AND ORPHAN.

C. Y. WEMPLE, Secretary.

N. D. MORGAN, President.

ABRAM DU BOIS, M. D., Medical Examiner, attends at the office daily, from 2 to 3 o'clock P.M. Prospectuses to be had at the office, gratis.

IRON FURNITURE.



NEW-YORK
BERLIN IRON FURNITURE WORKS,
51 GREEN STREET.

Between Grand and Broome, New-York.

The subscriber invites attention to his stock of ORNAMENTAL AND USEFUL IRON FURNITURE, consisting in part of

Bedsteads, highly ornamented, in great variety.

" for Seminaries and Schools,

" for Hotels, Servants, and Hospitals.

(Public Institutions supplied at the lowest terms.)

Marble and Patent Marble Top Tables, Bronze and Gilt.

Children's Cribs, Cradles and Bedsteads.

Hot, Coat and Umbrella Stands, of every style.

Hall, Garden, and Cemetery Settees and Chairs.

Store Stools always on hand, as also an endless variety of plain, useful and recherche articles.

Bedding, Spring, Hair, Husk, and Straw Mattresses, of all sizes, on hand.

Purchasers at this establishment can have their Goods Repaired, Re-Gilt, or Re-Bronzed, at the lowest prices.

CHARLES H. SANDFORD,
51 GREEN STREET.



SALAMANDER SAFE.
TILTON & MCFARLAND,

172 Broadway, cor. Maiden Lane, New-York,

OFFER THEIR

FIRE AND BURGLAR PROOF SAFES

To the public, as superior to any manufactured in the world, either for FIRE OR BURGLAR PROOF qualities; and are warranted entirely FREE FROM DAMPNESS, which is not the case with many others manufactured here. Of the thousands sold by us, not one of the many that have been tested in actual fires of the most intense heat, have the

BOOKS OR PAPERS SUFFERED THE LEAST !

Nor have Burglars, after repeated attempts, ever been able to pick our POWER AND BURGLAR PROOF LOCKS. These Safes have the precedence in the Government Offices at Washington, and are introduced in preference to others in the Patent Office, for the safe deposit of Government Jewels.

Purchasers are invited to call, examine, and compare prices and qualities with other manufacturers'.

172 BROADWAY, New-York.
14 HOWARD ST., Boston, Mass.
18 EXCHANGE ST., Portland, Me.

145 PLATT ST., Baltimore, Md.
69 MARKET ST., Nashville, Tenn.
90 BATTERY ST., San Francisco, Cal.

STEVENS'

CELEBRATED PATENT BROAD-CAST AND DRILL SEED-SOWER,

For Wheat, Rye, Oats, Barley, Buckwheat, Hemp, Flax, Cotton, and Rice; also, all kinds of Grass-Seeds, together with Guano, Lime, Plaster, Bone-Dust and Ashes; Corn, Peas, and Beans, when not planted in hill.

So simple and cheap an agricultural implement, it is believed, has never before been offered to the public.

The great amount of labor and the large per centage of seed saved by the use of this machine, make it for the interest of every farmer, of however limited means, to own one.

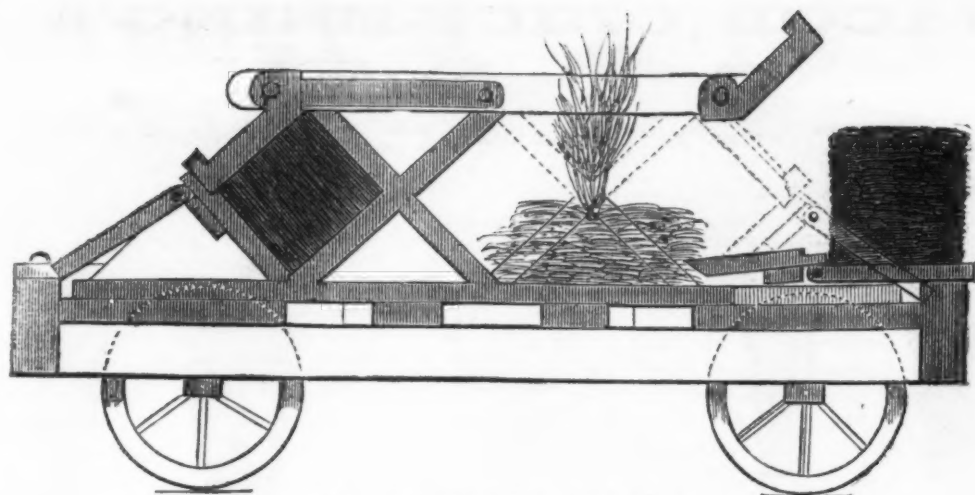
There being no valves to clog, or machinery of any kind to look after, the cheapest of help can operate it with facility.

A hand-machine, costing only \$35, will sow from twelve to fifteen acres daily; larger machines, using one or more horses, will sow from fifty to one hundred acres daily, and do the work in such manner, that the same quantity of seed will lie upon each square foot, rod, or acre of soil.

For further information, or rights to manufacture and use, address

Mar. 6th., 18

WM. S. SAMPSON, Proprietor, Boston, Mass.



MANNY'S

Patent Portable Hay and Cotton Press,

PATENTED April 17, 1855; being a Horizontal, Vibrating, Lever Press, constructed on Wheels; is readily drawn from place to place, and worked with great facility; the Press being filled at one end while the Bale is being hooped at the other, and *vice versa*; pressing a Bale at each vibration of the Levers; and, as is apparent, capable of doing a great amount of work, and designed to fully meet the wants of the public.

All Orders and Communications addressed to P. MANNY, Wadon's Grove, Ill., punctually responded to.

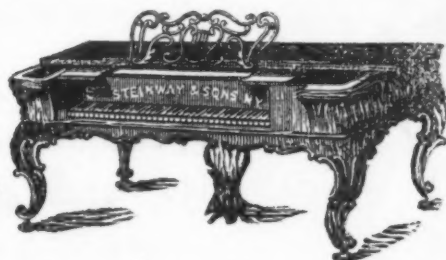
P. MANNY.

GOLD MEDAL PIANO-FORTES.

THREE

WITHIN

First Premiums



One Year.

STEINWAY & SONS, MANUFACTURERS,

84 Walker St., near Broadway, New-York,

Received three first-prize medals within the last year, in competition with the most celebrated manufacturers of Boston, New-York, Philadelphia, and Baltimore.

These Piano-Fortes combine all the modern improvements, and are warranted for three years in all respects, and a written guarantee given to that effect. Prices moderate.

Willis's Patent Stump Puller.

This is a Machine of vast power; and for extracting stumps, large or small, it has no equal. It will take out from twelve to twenty an hour, without difficulty, and with but a single yoke of oxen. It is also the best Machine yet invented for moving buildings.

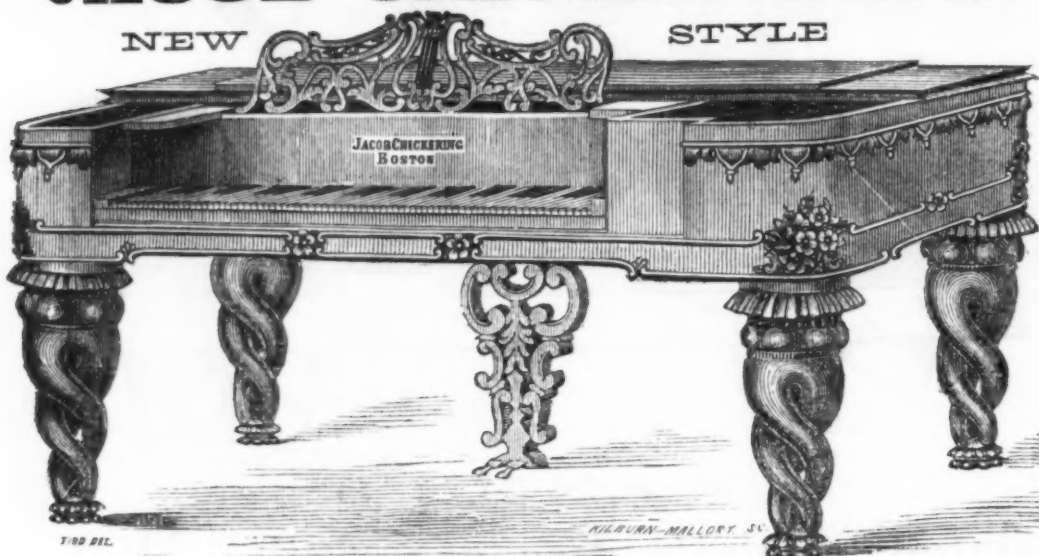
All progressive men who desire to bring their waste lands at once into market, or a state of fertility, are invited to address or call on the patentee, WM. W. WILLIS, Orange, Mass., or John Reynolds, at C. M. Saxton & Co.'s, No. 140 Fulton Street, N. Y., where a working model may be seen, and other information obtained.

June, 11.

JACOB CHICKERING'S

NEW

STYLE



PIANO FORTES.

300 WASHINGTON-STREET, Boston, Mass.

Mr. C.'s facilities for Manufacturing PIANO FORTES enable him to furnish them at WHOLESALE as well as at RETAIL.

The Instruments being made under his immediate supervision, and at his OWN Factory, he will WARRANT them to be of the FIRST CLASS—to stand good in any Climate, and TO GIVE SATISFACTION, or he will refund the money.

All inquiries as well as orders will be promptly answered. Those ordering by mail will be honorably served, and not be losers by so doing. Second-hand pianos taken in exchange. Prices low.

JOHN COMMERFORD & CO.,

MANUFACTURERS OF

CHAIRS,

Of every description, Wholesale and Retail,

Nos. 452 and 454 BROADWAY,
NEW-YORK.



CHAIRS, COUCHES, &c.,

For House and Office Use.

Extension, Recumbent, and
Bed-Chairs,

For Persons in ill health.

DR. DANIEL'S "PATENT IN-
VALID ADJUSTABLE
BEDSTEAD,"

For the comfort of Invalids, and convenience
of Physicians.

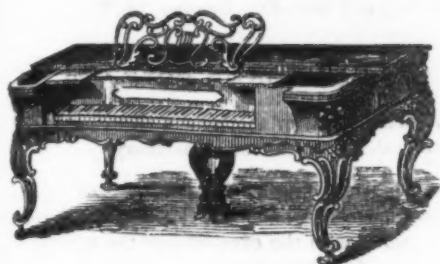
Any description of Chair made to order.

452 & 454 BROADWAY.

SAFFORD & BROTHER,

MANUFACTURERS.

NEW WARE-ROOM, 423 BROADWAY, NEW-YORK.



We invite the attention of purchasers to two very important improvements recently introduced in the Piano Fortes of our make. We have greatly improved the action and Sound-Board. Our action is peculiar for its power, simplicity of construction, rapidity of repeat, and elasticity of touch—combining all the requisites indispensable for a superior action. The Sound-Board also has been much extended in compass. These improvements have been highly commended by the musical profession. New and second-hand Pianos to rent.

SMITH AND CROCKER,

Manufacturers and Wholesale and Retail Dealers in

MEN AND BOYS' CLOTHING,

Nos. 35 and 37 NORTH STREET, BOSTON.

THIS is one of the largest Fashionable READY-MADE CLOTHING ESTABLISHMENTS in the city, and contains every variety of

GARMENTS, MADE IN THE BEST STYLE,

and at the cheapest rates.

Purchasers at wholesale or retail are requested to call and examine for themselves.

Particular attention directed to Custom Work.

ORGAN HARMONIUMS, and MODEL MELODEONS,

Made by MASON & HAMLIN, Boston, Mass.

The following are extracts from the opinions of several leading musicians and organists who have seen and examined them :

"They are decidedly superior to any others with which I am acquainted."—LOWELL MASON.

"The most satisfactory result of reed appliance that has come under my observation."—GEO. JAS. WEBB.

"Superior to any that I have yet examined."—GEO. F. ROOT.

"You are certainly producing Melodeons which in all desirable characteristics are, so far as I can perceive, faultless."—WM. B. BRADBURY.

"By far the best and pleasantest-toned reed instrument which I have ever seen."—WM. MALON.

"Very much superior to any reed instrument which I have ever seen, either in this country or in Europe."—GUSTAVE SATTER.

"I have no doubt that your 'Organ Harmonium' will, as it deserves, be brought into general use in our churches."—B. F. BAKER.

"They far exceed the expectations I had formed, in tone, finish, and mechanism."—JOHN H. WILCOX.

"In every respect they are far superior to any thing I have ever seen of the kind, either in Europe or America."—GEO. WASHBOURNE MORGAN.

"I have never seen a reed instrument so effective as your 'Organ Harmonium.'"—HENRY STEPHEN CUTLER.

"They far surpass all other instruments of the kind which have come under my observation."—C. ZERRAEN.

"The *ne plus ultra* of reed instruments."—G. W. PRATT.

"In my opinion they have not been equalled by any manufactured."—S. A. BANCROFT.

"Far in advance of any Melodeon I have ever before seen."—W. R. BARCOCK.

"They are the most perfect instruments of the kind manufactured, so far as I know."—EDWIN BRUCE.

"I do freely and cheerfully admit it is the best I have seen."—R. D. MCARTHUR.

"Far superior to any I have ever seen."—W. F. SHEERWIN.

Mr. W. B. Bradbury, the distinguished composer and musician, thus gives a general answer to the numerous inquiries received by him, regarding organs, etc.

"I have received several letters of late, asking my advice about organs for small churches—organs worth from three to seven or eight hundred dollars. I am fully of opinion that the 'Organ Harmonium,' made by Mason & Hamlin, of Boston, is in every respect a most desirable instrument for the church. In purity of tone, variety and power, it seems to me preferable to any organs that I have seen costing double the money."—[See N. Y. Musical Review of Jan. 26.]

Price of Melodeons, from \$60 to \$200 | Price of Organ Harmonium, \$350

Before concluding a purchase of Melodeons, please send for our circulars, which will be forwarded to any address free, on application to the undersigned. Sole Agent in New-York, S. T. GORDON, 297 Broadway.

MASON & HAMLIN, Cambridge-st. (corner of Charles), Boston, Mass.

UNITED STATES AGRICULTURAL SOCIETY.

THE FOURTH ANNUAL EXHIBITION of the UNITED STATES AGRICULTURAL SOCIETY, will be held at Powelton (Philadelphia), on Tuesday, Wednesday, Thursday, Friday, and Saturday, October 7th, 8th, 9th, 10th, and 11th.

PREMIUMS, FROM TWENTY-FIVE TO TWO HUNDRED DOLLARS.

Amounting, in the aggregate, to Fourteen Thousand Dollars, will be offered for the various classes of Domestic Animals, Fruits, American Wines, Vegetables, Grains, and Agricultural Implements and Machinery.

A local Committee, at Philadelphia, representing the various branches of industry, has already been appointed to co-operate with the officers of the Society in perfecting arrangements for the Exhibition. Fifteen Thousand Dollars have been guaranteed to meet expenses. This material aid, coupled with the excellence of the selected location, and the large amount of premiums offered, induces the expectation that the Exhibition of 1856 will be superior to any of its predecessors.

A GRAND AGRICULTURAL "BANQUET,"

In which ladies, as well as gentlemen, will participate, will take place on Friday afternoon, Oct. 10th, when distinguished speakers will address the assemblage.

Favorable arrangements with the various Railroads, for the transportation of Stock and other articles, are in progress, the terms of which will be given on application at the office.

The Premium List, with the Regulations and Programme of the Exhibition, will be furnished on application to Mr. JOHN MCGOWAN, Assistant Secretary of the United States Agricultural Society, 160 Chestnut Street, (Room of the Philadelphia Agricultural Society,) or by addressing the Secretary, at Boston.

MARSHALL P. WILDER, *President.*

WILLIAM S. KING, *Secretary.*

SEPTEMBER 1st, 1856. It.

THE INDEPENDENT; A RELIGIOUS FAMILY NEWSPAPER.

Circulation over 25,000!!! And rapidly increasing.

THAT no other weekly religious newspaper ever met with the success of *The Independent* must now be universally admitted. It has been the aim of the proprietors, without regard to expense, to make it rank in point of talent as high as the best journal of a similar character in the world; and to make it popular *only* so far as this could be done by treading boldly and firmly in the path of Christian duty—"not as pleasing men, but God."

A crisis has arrived when every Christian is called upon to ask, "Lord, what wilt thou have me to do" in a conflict for principle and human rights as great as the world has ever seen? No voice can now be silent with impunity. If the religious press or Christian men now refuse either to speak or to act, the very stones will cry out for Heaven's sorest judgments, and we shall be left, as a nation, to fill up the measure of our iniquity.

Now is the time to prove who are the true lovers of liberty, and to demonstrate who are the worthy descendants of the fathers of the Revolution, who were willing to lay down their lives to secure for this fair country an inheritance of freedom.

The Independent will enter the field side by side with all who desire to do battle for truth, justice, and humanity. With all the power God may give it, it will urge the Christian public to do with their might what their hands find to do, to save our beloved country from the death-grasp of slavery. It will advocate freedom of speech, freedom of the press, free soil, free men, and—Fre mont for the next President. Those who think a religious paper should not thus freely join with the secular press in doing this extraordinary work, are informed that the matter has been calmly considered, the cost counted, and the conclusion deliberately and conscientiously arrived at, that duty to God and man precludes a moment's hesitation as to the course which ought to be taken by this paper. Those who sympathize with it, of every name and party, and they are *thousands*, will aid the cause by doing all they can to extend its circulation.

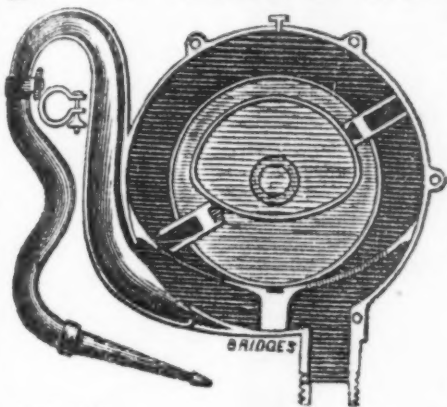
Those unacquainted with *The Independent*, are informed that the paper will furnish articles weekly as follows:

- 1st. Religious Editorials, Selections, and current Religious News.
- 2d. Editorials discussing the great Moral and Political Questions of the day.
- 3d. Communications from regular weekly contributors, embracing every variety of topic suited to a Christian family—to the *living*, not to the *dead*.
- 4th. Foreign and Domestic Correspondence.
- 5th. Reviews and Special Articles on important topics, by the ablest living writers.
- 6th. An Article on Agriculture, embracing information from all parts of the country, in relation to the condition of the crops.
- 7th. A Review of the New-York Cattle and Produce Market.
- 8th. A Price Current, carefully corrected weekly.
- 9th. A Commercial and Financial Article, embracing topics suited especially to business life, and containing all the important news of the day, including a List of Failures from all parts of the country.
- 10th. Poetry, Religious Items, Reports of Public Meetings, Book Notices and Reviews, and other matters interesting to the reading public.

Terms, \$2.00 cash in advance. Advertisements, 15 cents per line. Address

JOSEPH H. LADD, Publisher, 22 Beekman Street New-York

A. W. CARY'S ROTARY FIRE-ENGINE PUMPS.



THE Inventor, after thoroughly testing this engine pump, for the past two years, feels confident that it is not equalled by any thing now in market, in the way of raising or forcing water; the motion being rotary, the stream is constant, without the aid of an air vessel. The packing is self-adjusting, very durable, and can not well get out of order.

These pumps are well calculated for all the purposes for which pumps or hydrants may be used, viz., Factories, Steamboats, Tanneries, Breweries, Distilleries, Railroads, Water Stations, Hotels, Mines, Garden Engines, &c.

Among the many testimonials given of this pump, is a gold medal awarded at the last great Fair of the American Institute.

No. 1 is a house or well pump and domestic Fire Engine, and will raise from 20 to 30 gallons per minute.

No. 2 will raise 100 gallons at 120 revolutions.

No. 2½ " 200 " 120 "

No. 3 " 300 " 120 "

The quantity raised can be doubled, by doubling the revolutions. These machines are manufactured and sold by the subscribers at Brockport, N. Y.; also in this city, 240 Broadway.

CARY & BRAINERD.

Sept. 18-1y.

C. A. DURGIN, MECHANICAL ENGINEER AND SOLICITOR OF PATENTS.

Caveats, Specifications, Assignments, and all necessary papers and drawings for procuring Patents, in this and foreign countries, prepared. Advice given on legal matters respecting inventions and infringement of Patents.

Assignments recorded at Washington, and all legal papers pertaining to Patents executed with care and promptness.

Sales of good Patents negotiated on reasonable terms.

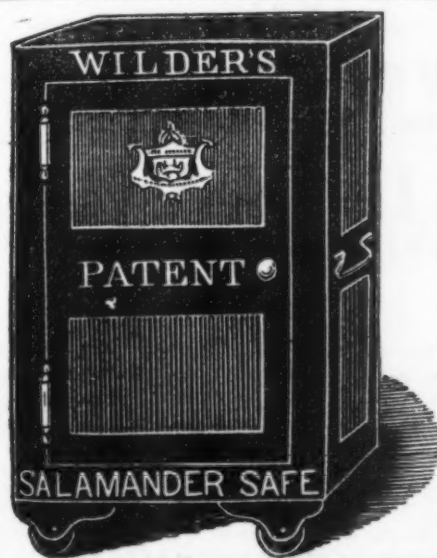
Inventors stuck with good inventions will be assisted and Patents secured on shares.

N.B.—Persons wishing to secure Patents will please send for circular.

C. A. DURGIN, Solicitor of Patents.

Aug. 1f.

335 Broadway, (Room 2,) New-York City.



WILDER'S PATENT SALAMANDER SAFE.

The best Fire-Proof Safe in the World,
With the best Powder and Burglar-Proof Locks.

To this Safe was awarded the Prize Medal at the
World's Fair, in London, in 1851.

By a recent discovery of our Mr. WILDER, (for which application has been made for Letters Patent,) we are now prepared to furnish to the Public a Safe warranted FREE FROM DAMPNESS, even if kept closed for years. The public should keep in mind that this

"World-Renowned" Fire-Proof Safe,

is no longer sold by SILAS C. HERRING, whose license from our Mr. WILDER to make and sell the same expired on the 2d of September, 1854. Our Safes are all manufactured under the personal superintendence of our Mr. WILDER, "THE ORIGINAL PIONEER" of the

GENUINE SALAMANDER SAFE;

and we are now prepared to furnish THE BEST MADE AND THE BEST FINISHED SAFE IN THE WORLD, combining all the requisites for a SAFE THAT IS A SAFE. UPWARDS OF 26,000 of the Wilder Patent Salamander Safes have been made and sold in the United States; and in almost every large fire that has taken place during the past twelve years, these Safes have been subjected to the severest tests, and NOT ONE of the

"GENUINE SALAMANDERS"

has ever been destroyed.

Buyers are particularly invited to call and examine our Safes.

Depot, 122 Water-street (near Wall-st.), New-York.

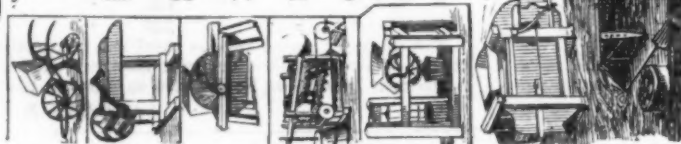
MANUFACTORY, Third Avenue, corner of 13th-street, Brooklyn

B. G. WILDER & CO., Patentees and Manufacturers.

EXCELSIOR
AGRICULTURAL WORKS
ALBANY, N.Y.
RICH^d H. PEASE,
PROPRIETOR.

The Best, the Cheapest
RAILWAY HORSE POWERS,
THRESHERS AND SEPARATORS,
Slitting and Cross-Cut Saw Mills,
CORN AND SEED PLANTERS,
Fanning Mills, Vegetable Cutters,
CIDER MILLS,
Dog Powers, Hay and Stalk Cutters,
FIELD AND GARDEN SEEDS.
 Circulars, giving Prices and Warrantee, sent
 by Mail to those that wish

369 and 371 Broadway
ALBANY.



JOHNSTOWN, Dec. 1, 1855.
 RICHARD H. PEASE, Esq. — Dear Sir — The Excelsior
 Horse Powers and Threshers, manufactured by you, are
 as good machines as can be made, and I threshed 500
 bushels of oats in 10 hours, with one, without sweating
 my horses a hair and can do it day in and day out. I
 think I can sell four or five machines for you next sea-
 son.
 Yours, &c.,
 J. V. N. MOORE.

ANDRE LEROY'S NURSERIES, AT ANGERS, FRANCE.

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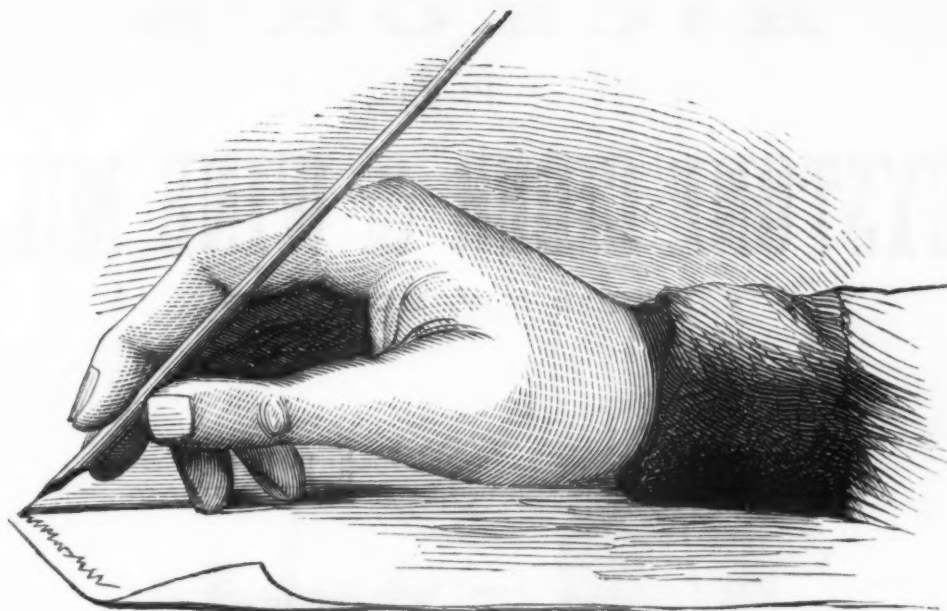
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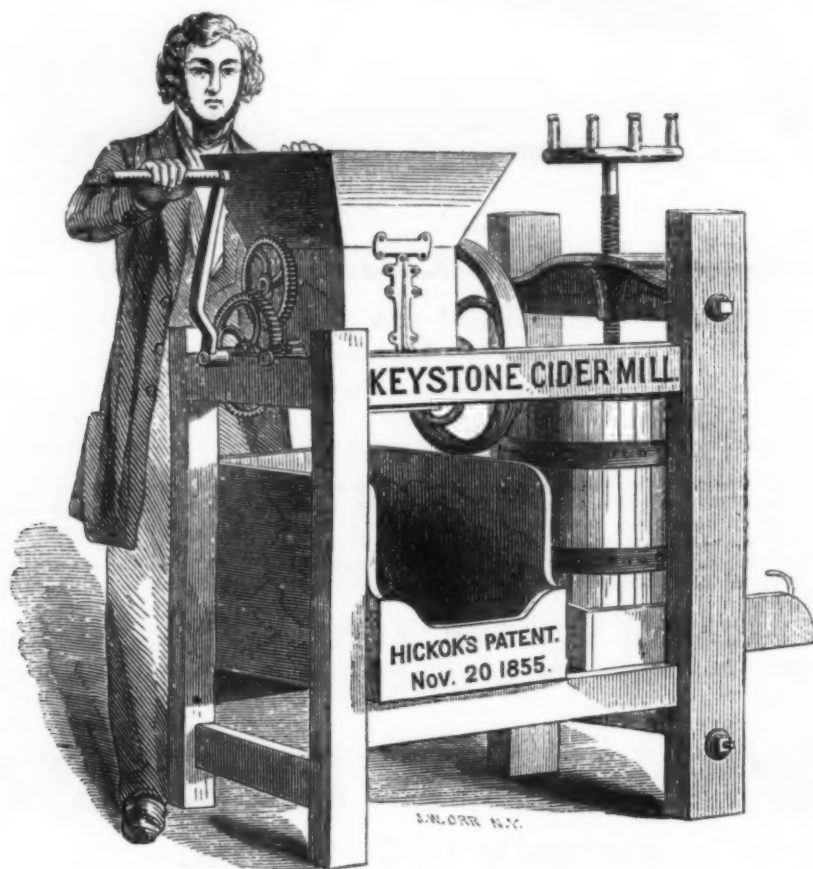
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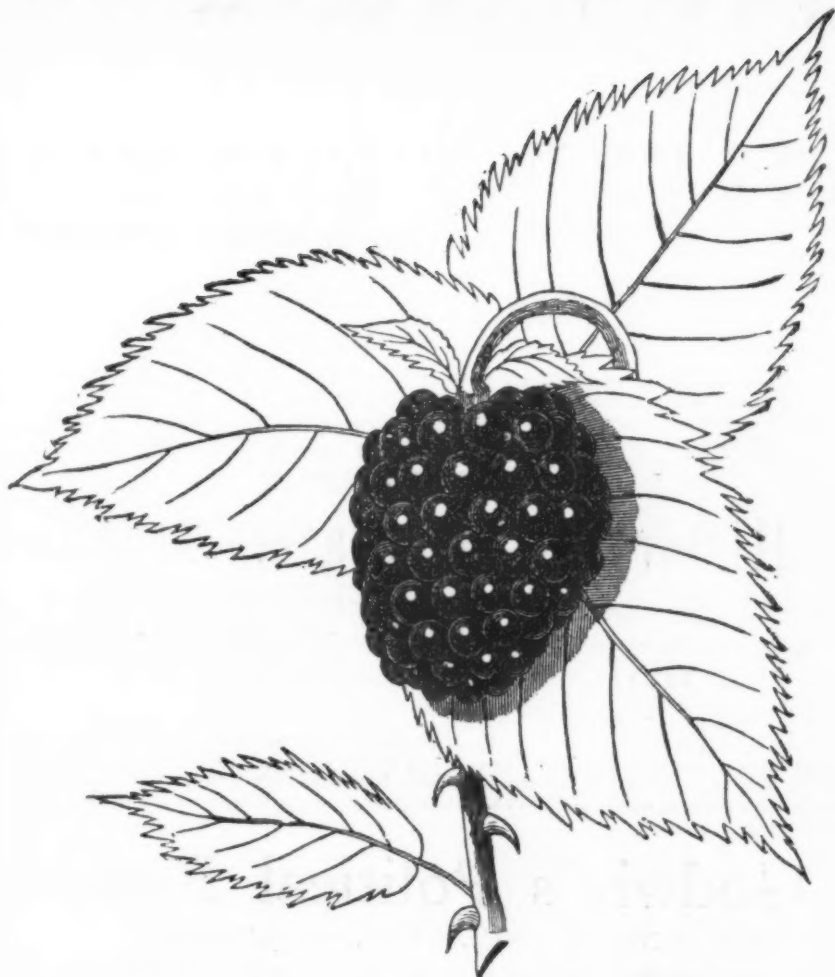
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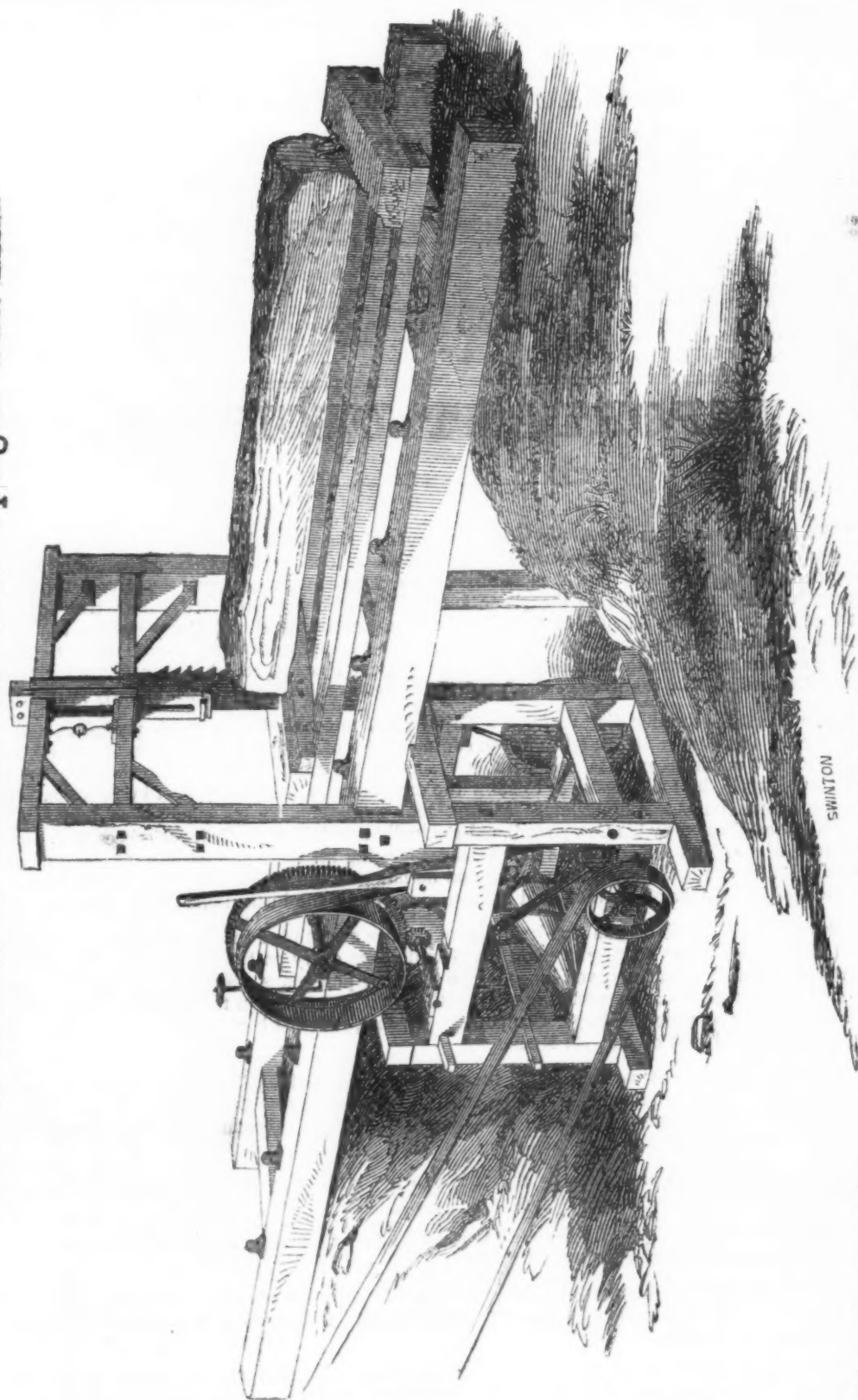
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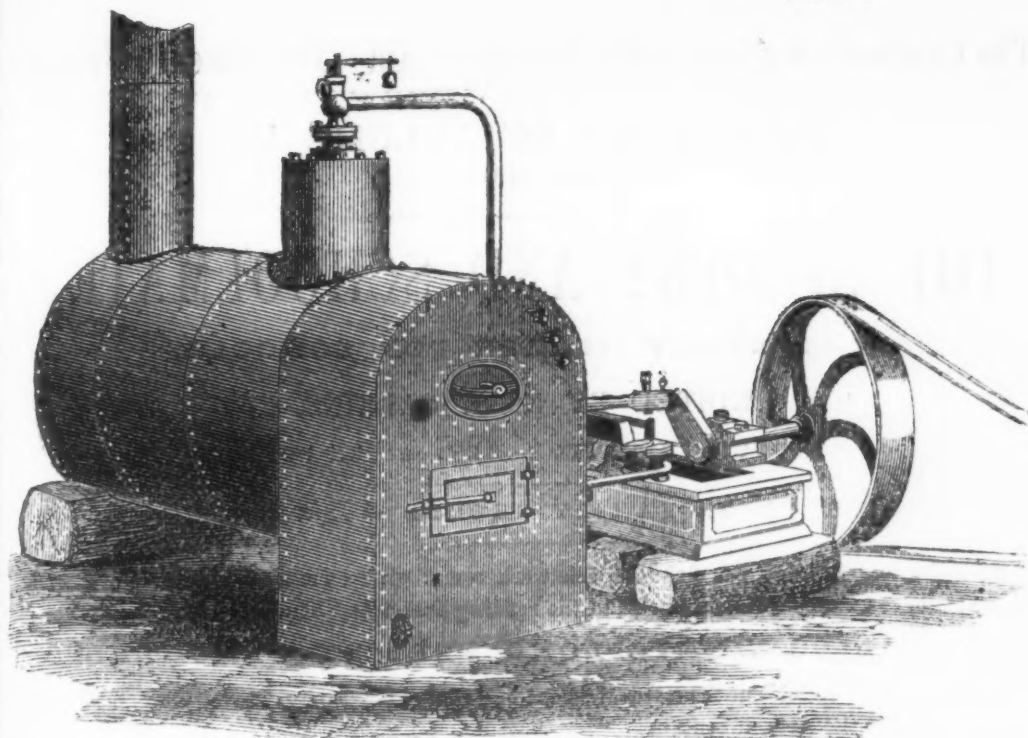
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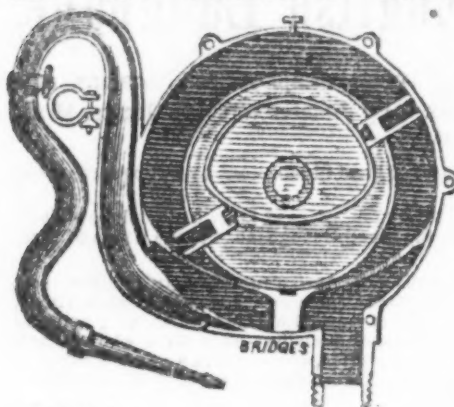
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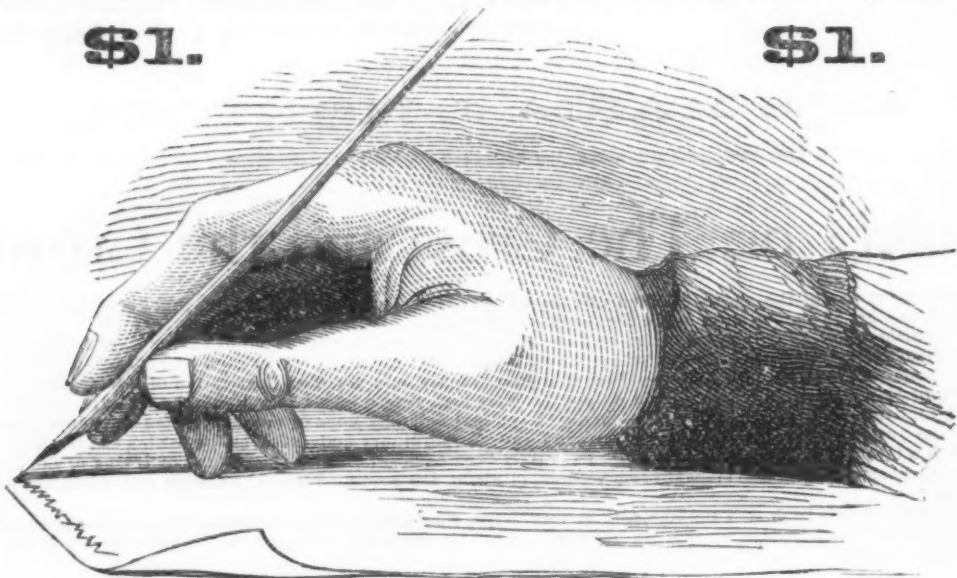
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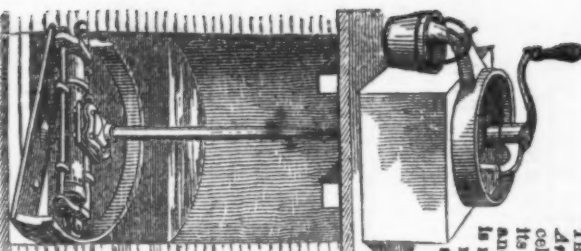
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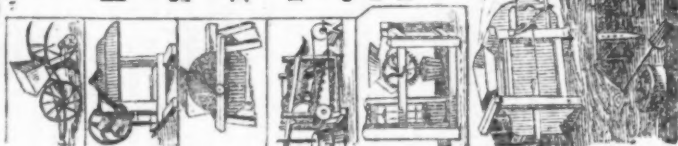
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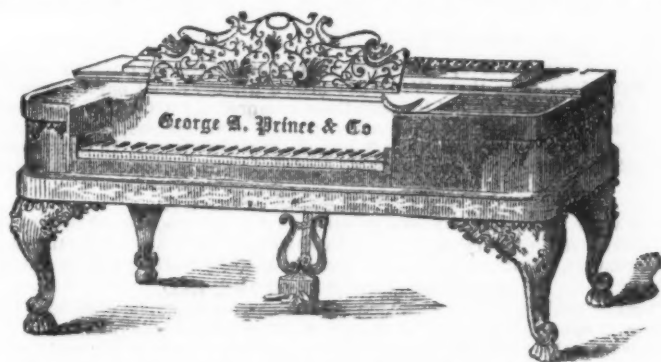
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(See Prospectus on next page.)

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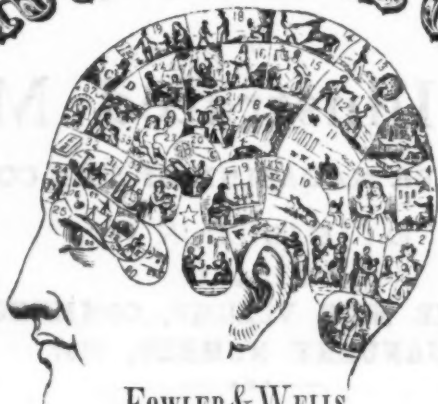
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- A. CONJUGAL LOVE.—Union for life, the pairing instinct.
2. PARENTAL LOVE.—Care of offspring, and all young.
3. FRIENDSHIP.—Sociality, union and clinging of friends.
4. INHABITIVENESS.—Love of home and country. [ness.]
5. CONTINUITY.—Application, finishing up, consecutive.
- E. VITATIVENESS.—Clinging to life, repelling disease.
6. COMBATIVENESS.—Defense, resolution, force, courage.
7. DESTRUCTIVENESS.—Extermination, severity, hardness.
8. ALIMENTIVENESS.—Appetite, relish, feeding, greed.
9. ACQUISITIVENESS.—Frugality, saving, industry, thrift.
10. SECRETIVENESS.—Self-control, policy, tact, artifice.
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12. APPROBATIVENESS.—Love of character, name, praise.
13. SELF-ESTEEM.—Self-respect, dignity, self-reliance, independence.
14. FIRMNESS.—Stability, perseverance, decision, [pendence.]
15. CONSCIENTIOUSNESS.—Sense of right, justice, duty, etc.
16. HOPE.—Expectation, anticipation, trust in the future.
17. SPIRITUALITY.—Intuition, prescience, prophecy, faith.
18. VENERATION.—Worship, adoration, devotion, deference.
19. BENEVOLENCE.—Sympathy, kindness, goodness.
20. CONSTRUCTIVENESS.—Ingenuity, manual skill. [ment.]
21. IDEALITY.—Taste, love of beauty, poetry, and refinement.
- B. SUBLIMITY.—Love of the grand, vast, endless, and
22. IMITATION.—Copying, mimicking, doing like. [infinite.]
23. MIRTH.—Fun, wit, ridicule, facetiousness, joking.
24. INDIVIDUALITY.—Observation, desire to see and know.
25. FORM.—Memory of shape, looks, persons, and things.
26. SIZE.—Measurement of quantity, distance, etc., by eye.
27. WEIGHT.—Control of motion, balancing, huffing, etc.
28. COLOR.—Discernment and love of colors, tints, hues, etc.
29. ORDER.—Method, system, going by rule, keeping things
30. CALCULATION.—Mental arithmetic, reckoning. [in place.]
31. LOCALITY.—Memory of places, position, etc. [talis, etc.]
32. EVENTUALITY.—Memory of facts, events, history, etc.
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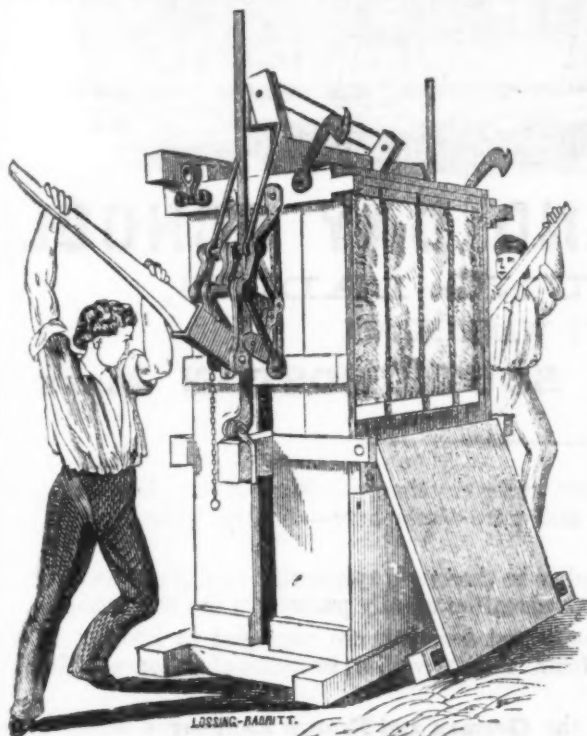
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"I have used this monthly reader in the schools that I have taught during the last six years, and I take pleasure in stating that I have found it *far superior to any other reader* that I ever used."

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"Its aims are of the highest and noblest character; ever on the alert to impart useful information to the young, and it seldom fails in awakening a thirst for knowledge. Are your children dull and careless in their studies? Place *THE STUDENT AND SCHOOLMATE* in their hands. Are they ambitious and striving for knowledge? Then by all means give them *THE STUDENT AND SCHOOLMATE*. It is the very work they want."

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IN TRACTS OF 40 ACRES, AND UPWARD,

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These lands were granted by the Government, to aid in the construction of this Railroad, and are among the richest and most fertile in the State. They extend with the Road, from Chicago on the North-east to Cairo at the South, and from thence to Galena and Dunleith in the extreme North-western part of the State. Most of these lands lie immediately on, and within six miles of, the Road, and none are more than fifteen miles distant from it; hence, ready and cheap facilities are furnished for transporting their products to any of the Eastern or Southern markets. The great increase of population by immigration, &c., and the consequent rapid growth of flourishing towns and villages on the line of the Road, and throughout the State, furnishes a substantial and growing home-demand for every kind of farm and garden produce.

In the Northern and Central parts of the State, prairie lands predominate, interspersed with magnificent groves of oak and other timber; in the Southern, the timber is more abundant, and exceedingly valuable.

The soil is a dark, rich mould, from one to five feet in depth; is gently rolling, and peculiarly fitted for grazing cattle or sheep, or the cultivation of wheat, Indian corn, &c. The air is pure and bracing, the climate more healthy, mild, and equable than that of any other part of the Union; while living streams and springs of excellent water abound.

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Corn, grain, cattle, &c., will be forwarded at reasonable rates to Chicago, for the Eastern, and to Cairo for the Southern market.

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The great fertility of the lands now offered for sale by this company, and their consequent yield over those of the Eastern and Middle States, is much more than sufficient to pay the difference in the cost of transportation, especially in view of the facilities furnished by this Road, and others with which it connects, the operations of which are not interrupted by the low water of summer, or the frost of winter.

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The price will vary from \$5 to \$25, according to location, quality, &c. Contracts for Deeds may be made until further notice, stipulating the purchase money to be paid in five annual installments: the first to become due in two years from the date of contract, and the others annually thereafter. The last payment will become due at the end of the sixth year from the date of the contract, and the lands are not subject to taxation till finally paid for.

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Circulars, containing numerous instances of successful farming, signed by respectable and well-known farmers, living in the neighborhood of the Railroad lands throughout the State; also the cost of fencing, price of cattle, expense of harvesting, threshing, &c., by contract, or any other information, will be cheerfully given, on application, either personally or by letter, in English, French, or German, addressed to

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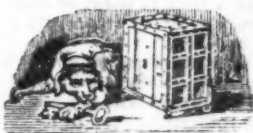
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Nor have Burglars, after repeated attempts, ever been able to pick our **POWER AND BURGLAR PROOF LOCKS**. These Safes have the precedence in the Government Offices at Washington, and are introduced in preference to others in the Patent Office, for the safe deposit of Government Jewels.

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So simple and cheap an agricultural implement, it is believed, has never before been offered to the public.

The great amount of labor and the large per centage of seed saved by the use of this machine, make it for the interest of every farmer, of however limited means, to own one.

There being no valves to clog, or machinery of any kind to look after, the cheapest of help can operate it with facility.

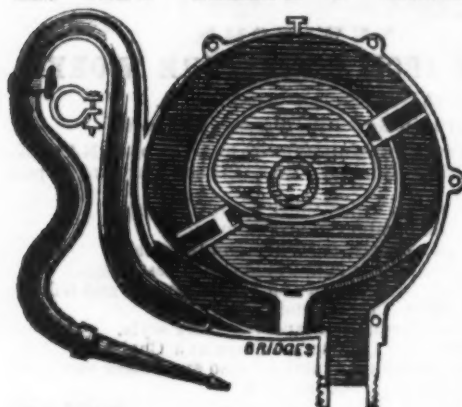
A hand-machine, costing only \$35, will sow from twelve to fifteen acres daily; larger machines, using one or more horses, will sow from fifty to one hundred acres daily, and do the work in such manner, that the same quantity of seed will lie upon each square foot, rod, or acre of soil.

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Sept. 18-1y.

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These pumps are well calculated for all the purposes for which pumps or hydrants may be used, viz., Factories, Steamboats, Tanneries, Breweries, Distilleries, Railroads, Water Stations, Hotels, Mines, Garden Engines, &c.

Among the many testimonials given of this pump, is a gold medal awarded at the last great Fair of the American Institute.

No. 1 is a house or well pump and domestic Fire Engine, and will raise from 20 to 30 gallons per minute.

No. 2 will raise 100 gallons at 120 revolutions.

No. 2½ " 200 " 120 "

No. 3 " 300 " 120 "

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Circulation over 25,000!!! And rapidly increasing.

THAT no other weekly religious newspaper ever met with the success of *The Independent* must now be universally admitted. It has been the aim of the proprietors, without regard to expense, to make it rank in point of talent as high as the best journal of a similar character in the world; and to make it popular only so far as this could be done by treading boldly and firmly in the path of Christian duty—"not as pleasing men, but God."

A crisis has arrived when every Christian is called upon to ask, "Lord, what wilt thou have me to do" in a conflict for principle and human rights as great as the world has ever seen? No voice can now be silent with impunity. If the religious press or Christian men now refuse either to speak or to act, the very stones will cry out for Heaven's sorest judgments, and we shall be left, as a nation, to fill up the measure of our iniquity.

Now is the time to prove who are the true lovers of liberty, and to demonstrate who are the worthy descendants of the fathers of the Revolution, who were willing to lay down their lives to secure for this fair country an inheritance of freedom.

The Independent will enter the field side by side with all who desire to do battle for truth, justice, and humanity. With all the power God may give it, it will urge the Christian public to do with their might what their hands find to do, to save our beloved country from the death-grasp of slavery. It will advocate freedom of speech, freedom of the press, free soil, free men, and—Free-mont for the next President. Those who think a religious paper should not thus freely join with the secular press in doing this extraordinary work, are informed that the matter has been calmly considered, the cost counted, and the conclusion deliberately and conscientiously arrived at, that duty to God and man precludes a moment's hesitation as to the course which ought to be taken by this paper. Those who sympathize with it, of every name and party, and they are thousands, will aid the cause by doing all they can to extend its circulation.

Those unacquainted with *The Independent*, are informed that the paper will furnish articles weekly as follows:

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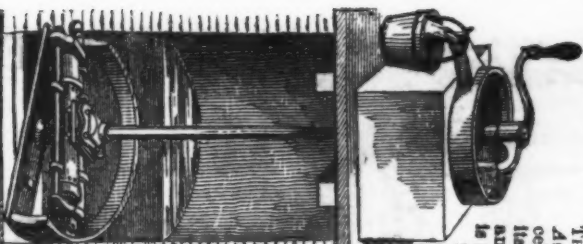
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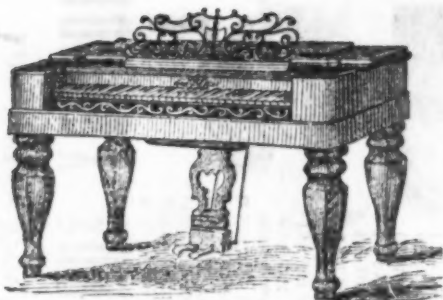
A NEW VOLUME (12th year) commences with the January number for 1857; and it will be the constant aim to render it still more worthy, by every practicable improvement, of the liberal patronage it is receiving. Several other original and well-executed engravings. The volumes, taken for a number of years, will make a valuable Encyclopedia of Horticultural Literature.

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Oct. 1y.

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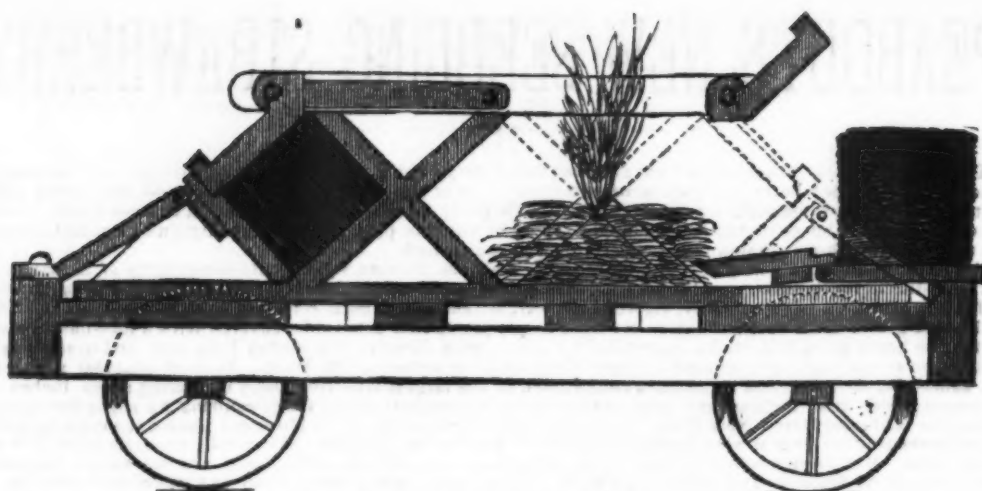
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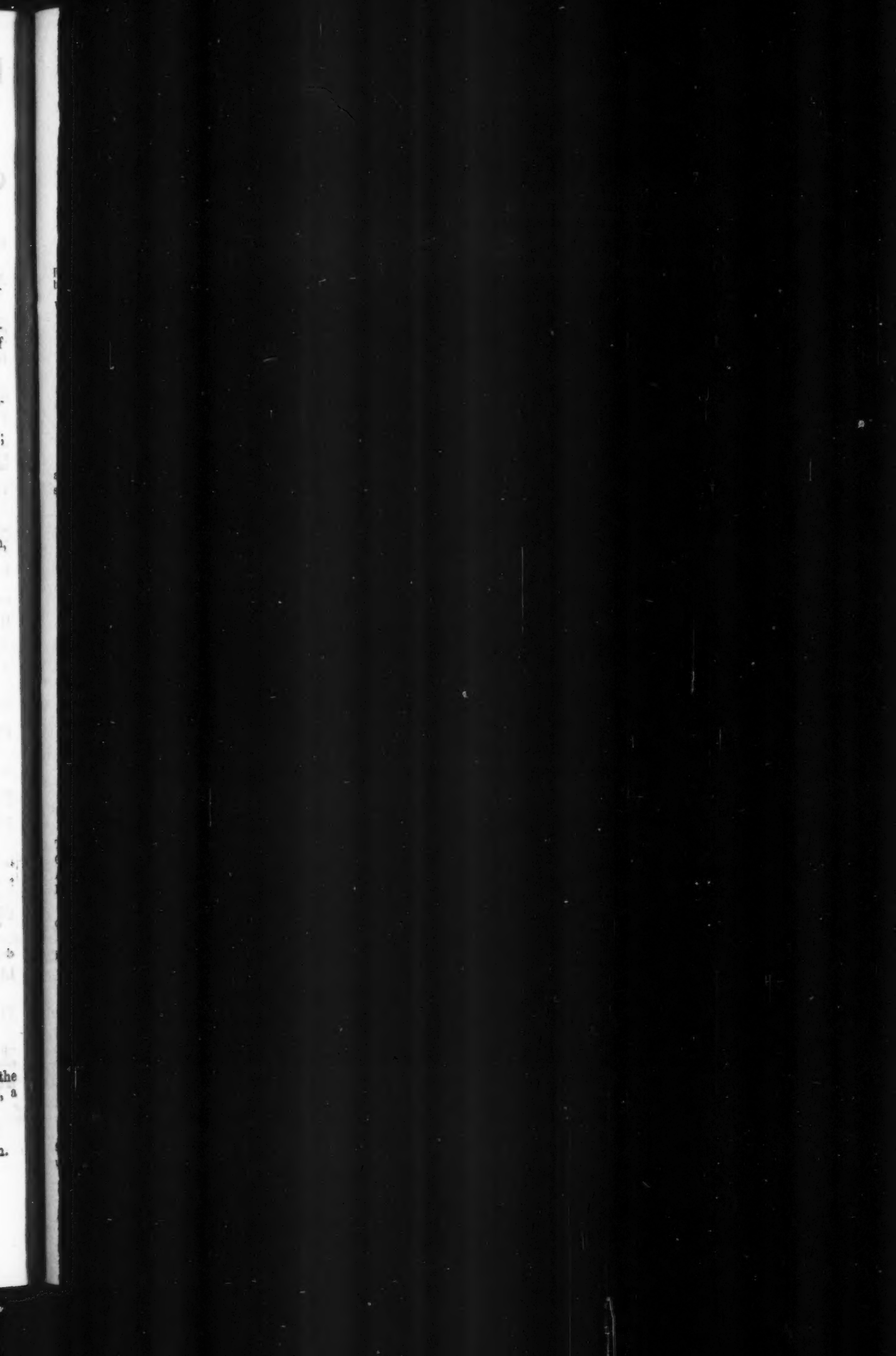
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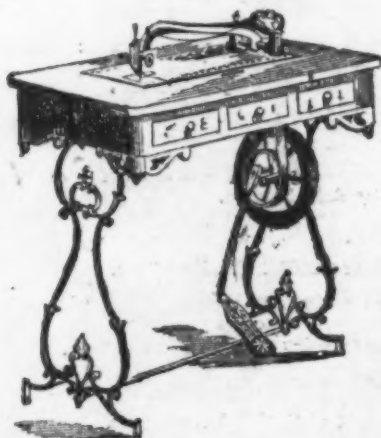
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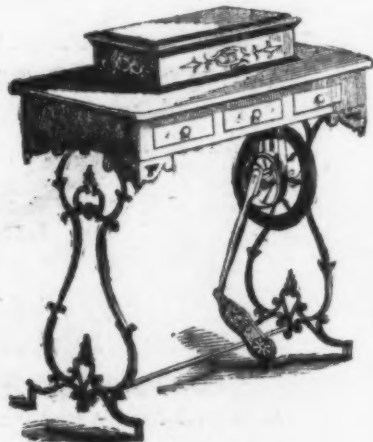
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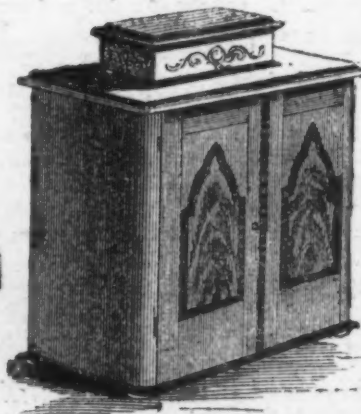
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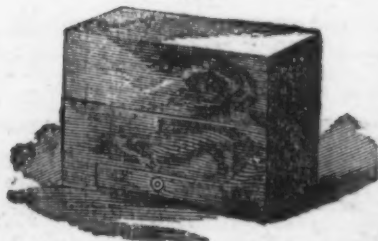
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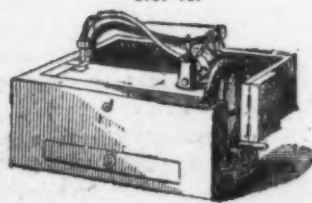
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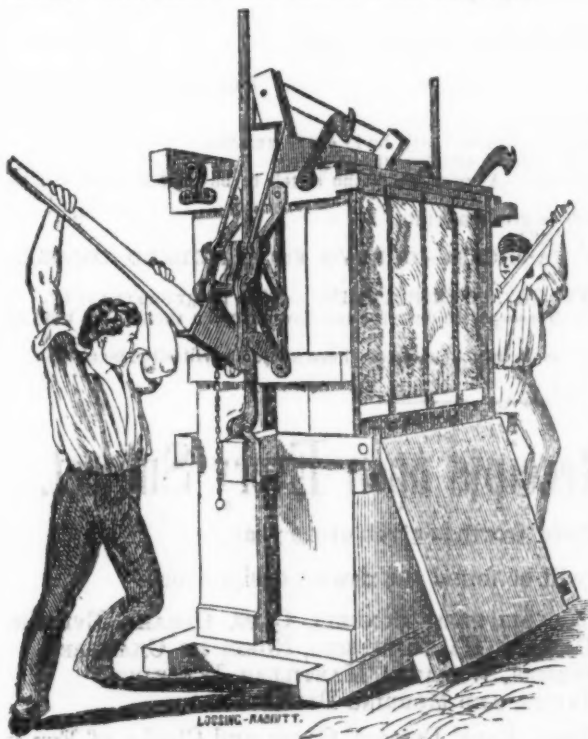
OFFICE

OF THE

Farmers' and Mechanics' Manufacturing Co.,

GREEN POINT, LONG ISLAND.

In answer to the many inquiries relative to the cubical contents of the Bale, the pressing room, size, weight, etc. of Ingersoll's Improved Hay and Cotton Presses, manufactured by this Co., the following descriptions of the various sizes are given:



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

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Nor have Burglars, after repeated attempts, ever been able to pick our **POWER AND BURGLAR PROOF LOCKS**. These Safes have the precedence in the Government Offices at Washington, and are introduced in preference to others in the Patent Office, for the safe deposit of Government Jewels.

Purchasers are invited to call, examine, and compare prices and qualities with other manufacturers.

172 BROADWAY, New-York.

14 HOWARD ST., Boston, Mass.

18 EXCHANGE ST., Portland, Me.

145 PLATT ST., Baltimore, Md.

69 MARKET ST., Nashville, Tenn.

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STEVENS'

CELEBRATED PATENT BROAD-CAST AND DRILL SEED-SOWER,

For Wheat, Rye, Oats, Barley, Buckwheat, Hemp, Flax, Cotton, and Rice; also, all kinds of Grass-Seeds, together with Guano, Lime, Plaster, Bone-Dust and Ashes; Corn, Peas, and Beans, when not planted in hill.

So simple and cheap an agricultural implement, it is believed, has never before been offered to the public.

The great amount of labor and the large per centage of seed saved by the use of this machine, make it for the interest of every farmer, of however limited means, to own one.

There being no valves to clog, or machinery of any kind to look after, the cheapest of help can operate it with facility.

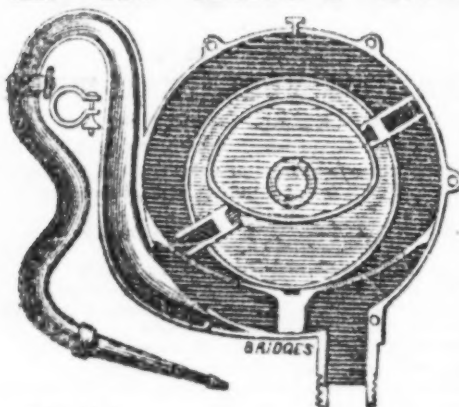
A hand-machine, costing only \$35, will sow from twelve to fifteen acres daily; larger machines, using one or more horses, will sow from fifty to one hundred acres daily, and do the work in such manner, that the same quantity of seed will lie upon each square foot, rod, or acre of soil.

For further information, or rights to manufacture and use, address

Mar. 5th., 18.

WM. S. SAMPSON, Proprietor, Boston, Mass.

A. W. CARY'S ROTARY FIRE-ENGINE PUMPS



Sept. 18-1y.

The Inventor, after thoroughly testing this engine pump, for the past two years, feels confident that it is not equalled by any thing now in market, in the way of raising or forcing water; the motion being rotary, the stream is constant, without the aid of an air vessel. The packing is self-adjusting, very durable, and can not well get out of order.

These pumps are well calculated for all the purposes for which pumps or hydrants may be used, viz., Factories, Steamboats, Tanneries, Breweries, Distilleries, Railroads, Water Stations, Hotels, Mines, Garden Engines, &c.

Among the many testimonials given of this pump, is a gold medal awarded at the last great Fair of the American Institute. No. 1 is a house or well pump and domestic Fire Engine, and will raise from 20 to 30 gallons per minute.

No. 2 will raise 100 gallons at 120 revolutions.

No. 2½ " 200 " 120 "

No. 3 " 300 " 120 "

The quantity raised can be doubled, by doubling the revolutions. These machines are manufactured and sold by the subscribers at Brockport, N. Y.; also in this city, 240 Broadway.

CARY & BRAINERD.

THE INDEPENDENT; A RELIGIOUS FAMILY NEWSPAPER

Circulation over 25,000!!! And rapidly increasing.

THAT no other weekly religious newspaper ever met with the success of *The Independent* must now be universally admitted. It has been the aim of the proprietors, without regard to expense, to make it rank in point of talent as high as the best journal of a similar character in the world; and to make it popular only so far as this could be done by treading boldly and firmly in the path of Christian duty—"not as pleasing men, but God."

A crisis has arrived when every Christian is called upon to ask, "Lord, what wilt thou have me to do?" in a conflict for principle and human rights as great as the world has ever seen! No voice can now be silent with impunity. If the religious press or Christian men now refuse either to speak or to act, the very stones will cry out for Heaven's sorest judgments, and we shall be left, as a nation, to fill up the measure of our iniquity.

Now is the time to prove who are the true lovers of liberty, and to demonstrate who are the worthy descendants of the fathers of the Revolution, who were willing to lay down their lives to secure for this fair country an inheritance of freedom.

The Independent will enter the field side by side with all who desire to do battle for truth, justice, and humanity. With all the power God may give it, it will urge the Christian public to do with their might what their hands find to do, to save our beloved country from the death-grasp of slavery. It will advocate freedom of speech, freedom of the press, free soil, free men, and—Free-mont for the next President. Those who think a religious paper should not thus freely join with the secular press in doing this extraordinary work, are informed that the matter has been calmly considered, the cost counted, and the conclusion deliberately and conscientiously arrived at, that duty to God and man precludes a moment's hesitation as to the course which ought to be taken by this paper. Those who sympathize with it, of every name and party, and they are thousands, will aid the cause by doing all they can to extend its circulation.

Those unacquainted with *The Independent*, are informed that the paper will furnish articles weekly as follows:

- 1st. Religious Editorials, Selections, and current Religious News.
- 2d. Editorials discussing the great Moral and Political Questions of the day.
- 3d. Communications from regular weekly contributors, embracing every variety of topic suited to a Christian family—to the living, not to the dead.
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Terms, \$2.00 cash in advance. Advertisements, 15 cents per line. Address

JOSEPH H. LADD, Publisher, 22 Beekman Street New-York

MANHATTAN LIFE INSURANCE COMPANY

146 BROADWAY, N. Y., CORNER OF LIBERTY STREET.

CASH CAPITAL AND ACCUMULATION, \$350,000.

\$100,000 deposited with the Comptroller of the State for the security of all policy holders. Persons insuring with this company, will be entitled to their pro rata share of the dividends. The rates and principles adopted have stood the test of experience, and must secure, beyond contingency, the object for which Life Insurance is effected—immediate and permanent aid to the WIDOW AND ORPHAN.

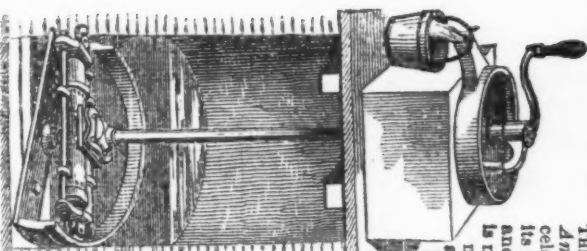
C. Y. WEMPLE, Secretary.

N. D. MORGAN, President.

ABRAM DU BOIS, M. D., Medical Examiner, attends at the office daily, from 2 to 3 o'clock P.M. Prospectuses so be had at the office, gratis.

Lindsey's Double-Acting

ROTARY FORCE PUMP.



This pump has just been patented in America and England, and far exceeds any pump heretofore invented; its peculiarities are simplicity, power, and cheapness. Its simplicity, there is nothing about it but iron and cast metal, and it can be taken apart and put up by any one, and will last for an age. It has the power to raise water hundreds of feet, with the extra expense of \$3 and the price of pipe. Water rises in it by hand 100 feet per minute! For cheapness; a No. 1. pump (for all ordinary purposes) complete, and fifty feet of pipe, costs but \$30!

The handle at the top, turns the pipe and pump, and every revolution fills the cylinder twice, affording an abundant supply of water with the least possible expense and labor. It is peculiarly adapted to deep wells, well roads, stations, salt works, mining and manufacturing purposes. Wherever it is introduced, the old force, suction and chain pumps will disappear. Practical and scientific men pronounce it as without an equal, for all that is here claimed for it. The Scientific American, after seeing it in operation, says: "This pump is very simple in construction, not liable to get out of order, durable, easily operated and economical; we regard it as an excellent improvement." Circulars with an accurate drawing and full description sent free of charge to all parts of the country. No. 1, has a one inch pump; No. 2, 1 1/2 inches; No. 3, 1 3/4 inches; and the prices \$30, \$42, \$54; the No. 2 and 3 are designed for very deep wells, railroad stations, etc. where much water is required. The subscriber is the general agent for the sale of these pumps to all parts of the world, and exclusive agent for New York. Orders must be accompanied by the cash, and should be explicit as to the kind of pump wanted, depth of well, shipping address, &c. They will meet prompt attention. A pump and pipe weighs about 110 lbs. No charge for shipping or carriage. Wells over 50 feet should have extra gearing, which costs \$3.

For sale by H. Linsbury, Inventor, Asheville, N. C.

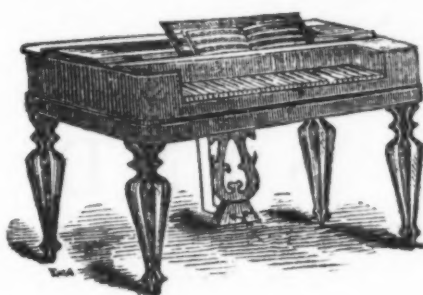
T. & E. SAWYER,

MANUFACTURERS OF CARHART'S CELEBRATED

MELODEONS,

SERAPHINES, AND REED ORGANS,

FISHER'S BLOCK, MAIN STREET NASHUA, N. H.



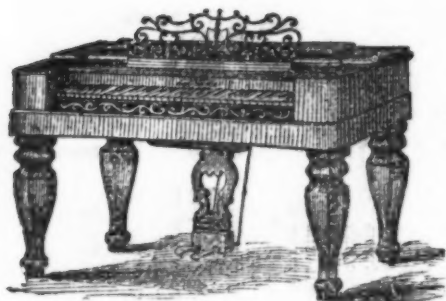
PRICES.	
4 Octave.....	\$15
5 Octave.....	25
6 Octave.....	40
7 Octave.....	55
8 Octave.....	70

PIANO STYLE.	
5 Octave.....	\$100
5 " Extra.....	115
Double Reeds.....	150

Such improvements have been made of late in Melodeons, that they have come to be the most popular and desirable instrument in use, and, if we may judge from the demand for them, they will soon be indispensable in every family. We well know that the manufacturer who produces the best article will lead the trade, for discerning musicians will judge for themselves. We believe, and good judges have said, that our instruments are in all respects superior to any other of a similar kind, and particularly in respect to quality of tone and promptness of touch, or action of reeds, by which quick passages may be performed with certain and distinct articulation.

An instrument of this kind is the best substitute for an organ in church music, and will admit of the performance of as rapid passages as the pianoforte.

Our instruments are put up in elegant rosewood cases, with the usual variety of size and price—they are warranted to give perfect satisfaction, and will be carefully packed and sent, at our own risk, to any part of the United States.



CHARLES AUSTIN,
MANUFACTURER OF IMPROVED
MELODEONS,
AND
ORGAN HARMONIUMS,

OPPOSITE THE DEPOT, CONCORD, N. H.

Ware-rooms, 324 Washington St., Boston.

CHARLES AUSTIN is the oldest manufacturer of Melodeons in the United States, having commenced the business at Concord, N. H., in 1835. He has made over 4,000 instruments, all of which have proved entirely satisfactory. Recently, he erected a very large factory, with steam-power attached, and has invented a number of machines which do the work more perfect than it can possibly be done by hand, and in many parts of the instrument saves one-third of the labor usually required; consequently, he believes he is now prepared to sell better Instruments, and at lower prices, than can be bought in this country. He also manufactures Organ Harmoniums for churches, with Pedal Bass, with from two to six Stop Reeds.

All instruments warranted to give satisfaction, or the money will be refunded. Price List, with full descriptions, furnished when desired. The Reeds used in the celebrated Æolian Attachment to the Planos of Messrs. T. GILBERT & Co., are manufactured by him.

Melodeon manufacturers supplied to order with Reeds of every description.

THE REGULAR MAIL LINE via STONINGTON FOR BOSTON AND PROVIDENCE.

INLAND route, without delay, change of cars or baggage.

The Steamers PLYMOUTH ROCK, Capt. Joel Stone, and C. VANDERBILT, Capt. W. H. Frazee, in connection with the Stonington and Providence, and Boston and Providence Railroads, leaving New-York daily, Sundays excepted, from Pier No. 2, North River, first wharf above Battery-place, at 4 o'clock P.M., and Stonington at 8.30 P.M., or on the arrival of the mail train which leaves Boston at 5.30 P.M.

The C. VANDERBILT, from New-York, Monday, Wednesday, and Friday. From Stonington, Tuesday, Thursday, and Saturday.

The PLYMOUTH ROCK, from New-York, Tuesday, Thursday, and Saturday. From Stonington, Monday, Wednesday, and Friday.

Passengers proceed from Stonington, per Railroad, to Providence and Boston, in the Express Mail Train, several hours in advance of those by other routes, and in ample time for all the early morning lines connecting North and East. Passengers that prefer it remain on board the steamer, enjoy a night's rest undisturbed, breakfast if desired, and leave Stonington in the 6.45 A.M. train connecting at Providence with the 11 A.M. train for Boston.

A Baggage Master accompanies the Steamer and Train through each way.

For passage, berths, state-rooms, or freight, apply at Pier No. 2, North River, or at the Office, No. 10 Battery-Place.

GREEN SAND MARL,
OF NEW-JERSEY.

THE NEW-JERSEY FERTILIZER COMPANY is now prepared to receive orders for this important Manure. For all lands upon which ashes are beneficial, the Marl is more than a substitute. Prof. Cook, in his Annual Report to the Legislature, says: "The value of these Marls is best seen in the rich and highly cultivated district which has been improved, almost made, by their use; but it may be interesting to examine the causes of their great value in Agriculture, and to compare them with other Fertilizers."

"For example: the potash alone may be taken at an average as five per cent. of the whole weight of the Marl—a bushel, when dry, weighs eighty pounds, and in the proportion mentioned would contain four pounds of potash; this is nearly as much as there is in a bushel of unleached Wood Ashes," &c. Again: "It is probable that the great value of the Marl is to be found in the fact, that it contains nearly all the substances necessary to make up the Ash of our common cultivated plants."

Price, delivered on board vessel, at the wharves of the Company, at Portland Heights, N. J., SEVEN CENTS PER BUSHEL.

For further particulars, see Circular, sent free of postage. Orders for other Fertilizers will receive prompt attention. Address either of the undersigned.

TAPPEN TOWNSEND, Treas., No. 82 Nassau St.

CHAS. SEARS, Prest., Riceville.

GEO. W. ATWOOD, Sec'y, 16 Cedar St.

Oct. 1y.

PEABODY'S NEW SEEDLING STRAWBERRY.

THE Subscriber has originated a New Seedling Strawberry, which combines more good qualities to make up a perfect berry, than any berry ever yet introduced, viz.: It is of the largest size, measuring six and seven inches in circumference; it is of beautiful form, attached to the calyx by a polished, coral-like neck, without seeds; rich, deep crimson color; fruit borne on tall foot-stalks, of the most exquisite pine flavor; flesh firm, melting, and juicy; and bears transportation better than any Strawberry ever yet cultivated.

We have produced this new seedling by crossing the Rose Phoenix with a wild Strawberry of Alabama. It is hermaphrodite in its character, producing fruit without the aid of an impregnator, being a capital impregnator itself for pistillate varieties. It is a hardy, vigorous grower, withstanding both cold and heat without injury. In good soil the vine grows to an enormous size—we have single plants that can not be covered with a half-bushel measure. The fruit is borne upon tall stalks, suspended on stems from three to five inches long, attached to the calyx by a polished, coral-like neck, without seeds; there being very few seeds in the berry. It is of singular and beautiful form, somewhat irregular, and sometimes compressed of the largest size, frequently measuring seven inches in circumference; flesh firm, melting, and juicy, and of the most exquisite pine flavor, requiring no sugar for the desert, rivaling the far-famed Burr's New Pine. It is a prolific bearer, opening its blossoms during the mild days of winter, and perfecting its fruit as soon in the spring as the weather will permit. When fully ripe, the color is of a rich, dark crimson. But its rich color, beautiful form, magnificent size, and exquisite flavor, are not all its recommendations; through its firmness and lack of acidity, it bears transportation better than any strawberry ever yet introduced.

I will be prepared to send the plants out whenever the following terms are complied with. Not a plant of this variety has ever left my grounds, nor ever will, until the proposition below is subscribed to. I propose to get one thousand subscriptions, at \$5 per dozen plants, throughout the whole country. Subscribers, on forwarding their names and post-office address, with the number of dozen desired, will receive, by return mail, a beautiful colored plate of the vine and fruit, drawn from nature; and as soon as the thousand subscriptions are made up, I will notify each subscriber, when the money may be mailed to me, and I will put the plants up in moss, envelop them in oil-silk, and forward them by mail. By this method, they can be sent to any part of the Union with safety and dispatch. I have sent packages of 100 of the common strawberry, 1,000 miles by mail, without the loss of a plant. Packages of one dozen will go through the mail as certainly as a letter.

Subscribers, on receiving the colored plates, will please show their friends, that it may hasten the completion of the list. From one dozen plants, one thousand may be produced the first year. This plant is the hermaphrodite, always bearing perfect crops of fruit without an impregnator.

Directions for the culture of this plant will be sent with each colored plate.

CHARLES A. PEABODY.

COLUMBUS, GA., October 1, 1856.

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J. A. KNIGHT & Co.

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We would respectfully inform Inventors and Patentees, that in connection with our EUROPEAN, LAND, AND GENERAL AGENCY business, We have opened an office for the exhibition of MODELS, and also for the sale of PATENT RIGHTS, in the United States and Europe.

From our extensive acquaintance and correspondence, we flatter ourselves that we possess facilities for the sale of Patent Rights second to none in the country.

Our terms will be moderate, and all business entrusted to us will receive prompt attention.

We should be pleased to have the favor of your patronage.

Sept., 1856. *tf.*

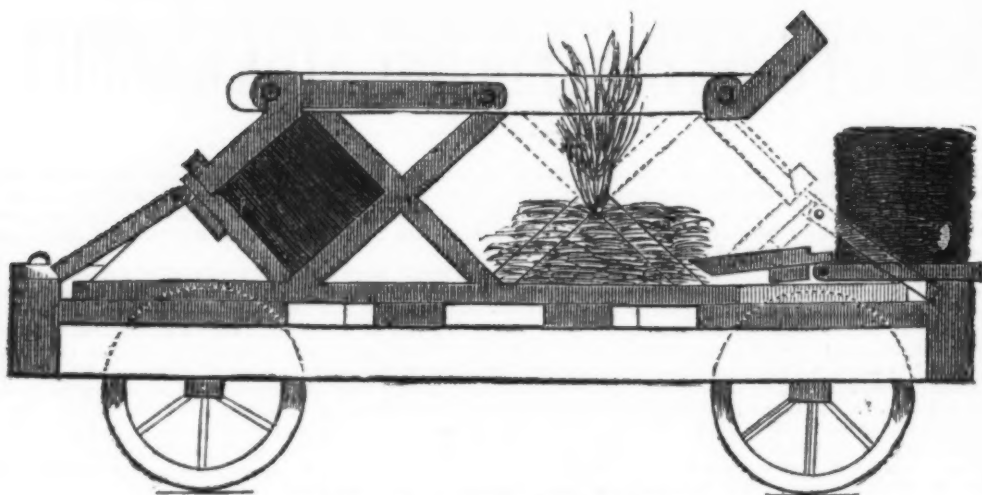
J. A. KNIGHT & Co.

DOCTOR HOOFLAND'S

CELEBRATED GERMAN BITTERS. prepared by Dr. C. M. Jackson, Philadelphia, Pa., will effectually cure *Liver Complaint, Dyspepsia, Jaundice, Chronic or Nervous Debility, Diseases of the Kidneys, and all Diseases arising from a disordered Liver or Stomach*—such as Constipation, Inward Piles, Fullness or Blood to the Head, Acidity of the Stomach, Nausea, Heartburn, Disgust for Food, Fullness or Weight in the Stomach, Sour Eructations, Sinking or Fluttering at the Pit of the Stomach, Swimming of the Head, Hurried and Difficult Breathing, Fluttering at the Heart, Choking or Suffocating Sensations when in a Lying Posture, Dimness of Vision, Dots of Webs before the Sight, Fever and Dull Pain in the Head, Deficiency of Perspiration, Yellowness of the Skin and Eyes, Pain in the Side, Back, Chest, Limbs, &c., Sudden Flushes of Heat, Burning in the Flesh, Constant Imaginings of Evil, and great Depression of Spirits.

The proprietor, in calling the attention of the public to this preparation, does so with a feeling of the utmost confidence in its virtues and adaptation to the diseases for which it is recommended.

Principal Office and Manufactory, No. 98 Arch Street, Philadelphia, Pa. Sold by Druggists and Storekeepers in every town and village in the United States and Canadas, at 75 cents per bottle.



MANNY'S

Patent Portable Hay and Cotton Press,

PATENTED April 17, 1855; being a Horizontal, Vibrating, Lever Press, constructed on Wheels; is readily drawn from place to place, and worked with great facility; the Press being filled at one end while the Bale is being hooped at the other, and *vice versa*; pressing a Bale at each vibration of the Levers; and, as is apparent, capable of doing a great amount of work, and designed to fully meet the wants of the public.

All Orders and Communications addressed to P. MANNY, Wadon's Grove, Ill., punctually responded to.

P. MANNY.

GOLD MEDAL PIANO-FORTES.

THREE



WITHIN

First Premiums

One Year.

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Received three first-prize medals within the last year, in competition with the most celebrated manufacturers of Boston, New-York, Philadelphia, and Baltimore.

These Piano-Fortes combine all the modern improvements, and are warranted for three years in all respects, and a written guarantee given to that effect. Prices moderate.

Willis's Patent Stump Puller.

This is a Machine of vast power; and for extracting stumps, large or small, it has no equal. It will take out from twelve to twenty an hour, without difficulty, and with but a single yoke of oxen. It is also the best Machine yet invented for moving buildings.

All progressive men who desire to bring their waste lands at once into market, or a state of fertility, are invited to address or call on the patentee, WM. W. WILLIS, Orange, Mass., or John Reynolds, at C. M. Saxton & Co.'s, No. 140 Fulton Street, N. Y., where a working model may be seen, and other information obtained.

June, 11.

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A beautiful gift-book. Being larger, and having wider margins than the Quarto, it is designed also for a Pulpit edition. Price, Morocco, gilt edges, \$15; superior extra Morocco, \$18; do. do. do., beveled edges, \$23.

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This edition is printed from a much larger type than any heretofore published—being bold-face English, with a center column of marginal references. The paper is superfine. It contains the text, index of subjects, family record, and twenty-five superior steel engravings. The various styles of binding are executed in the very best manner, and, altogether, it is the most splendid edition ever published in this country.

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The laudable object to which this volume is devoted bespeaks for it a place in the public regard. It has been prepared by several ladies of taste and refinement as an aid to the erection of a Methodist church, in a rural district near the banks of the Hudson. Selected from the periodical literature of the day, with the addition of some original pieces, its contents afford a variety of specimens from many of the most esteemed poets, both of England and this country. Hallock, Whittier, Willis, Bayard Taylor, Pierpont, are among the native writers here represented, and of English poets, we have characteristic selections from Wordsworth, Mrs. Browning, Tennyson, Mary Howitt, and others. The volume is brought out in an ornamental style, and will doubtless be sought as a popular gift-book.—*Tribune*.

BLEDSOE'S THEODICY.

A THEODICY; or, Vindication of Divine Glory, as Manifested in the Constitution and Government of the Moral World. By ALBERT TAYLOR BLEDSOE, Professor of Mathematics in the University of Mississippi. Price, half Morocco, \$1.50; Morocco, full gilt, \$2.50.

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SKETCHES OF EMINENT METHODIST MINISTERS. With Portraits and other Illustrations. Edited by JOHN M'CLINTOCK, D. D. Royal 8vo. Price, Roan, gilt edges, \$3; Morocco, \$3.50; Morocco, super, extra, \$5; super extra, beveled boards, \$6.

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These sketches possess almost every variety of excellence which pertains to such writings. Each has been composed by a different author, who has brought to his work his individual ability and taste, and wrought into his narrative facts and incidents suggestive of the reflections which arose in his own mind. Each will find in different readers thoughts and feelings corresponding to his own.

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LIFE AND TIMES OF REV. ELIJAH HEDDING, D. D., late Senior Bishop of the Methodist Episcopal Church. By Rev. D. W. CLARK, D. D. With an Introduction by Bishop JAMES. Large 12mo. Price, \$1.50; muslin, gilt, \$1.80; Morocco, extra, \$2.50.

This is a splendid volume. Its typography, and mechanical execution generally, are of the highest order. Better work is done nowhere in the nation than by Carlton & Porter. Nor is the literary character of the performance less worthy of commendation. Dr. Clark has executed his task with distinguished judgment and skill. Avoiding all tedious details, he gives the leading facts in the life and times of Bishop Hedding, in a style at once simple, chaste, and picturesque. Indeed, a more readable, entertaining, or instructive volume, seldom emanates from the American press. The book will doubtless be read extensively, not only by the communion of which the bishop was so bright an ornament, but by the public generally. Those who have any curiosity to understand the philosophy involved in the rapid spread of Methodism in this country, will do well to consult this very able performance. It will well pay anybody for the perusal.—*Susquehanna Journal*.

HIBBARD ON THE PSALMS.

THE PSALMS, CHRONOLOGICALLY ARRANGED. With Historical Introductions, and a General Introduction to the whole Work. By Rev. F. G. HIBBARD. 8vo. Price, sheep, \$2; half Morocco, \$2.50.

If there is anything relative to the Psalms not down in this very thorough, scholarly, and well-written work, we presume that it is something which escaped even Rabbi Ischaak Abarbenel himself, and is consequently no longer extant. In short, the Psalms are here thoroughly exhausted, their poetical form made manifest, and their numerous good points brought forth to the light of day. This good work should be in the hands of every student of theology.—*Exchange*.

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FRENCH MISSION LIFE; or, Sketches of Remarkable Conversions, and other Events, among French Romanists in the City of Detroit. With Five Letters to the Roman Catholic Bishop residing in that City. By Rev. T. CARTER. 16mo. Price, 45 cents.

CARLTON & PORTER, 200 Mulberry St., New-York.

ON SATURDAY, THE THIRD DAY OF JANUARY, 1857,
HARPER & BROTHERS, FRANKLIN SQUARE, NEW YORK,
Will issue the first Number of a Weekly Newspaper, to be entitled,



They will spare neither labor nor expense to make it the best FAMILY NEWSPAPER in the World—one whose cheerful and genial character will render it a welcome visitor to every household, while its constant devotion to the principles of right and justice shall win the approbation of the wise and the good. Its object will be to set forth sound views on Political, Social, and Moral questions; to diffuse useful information; and to cultivate the graces and amenities of life.

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
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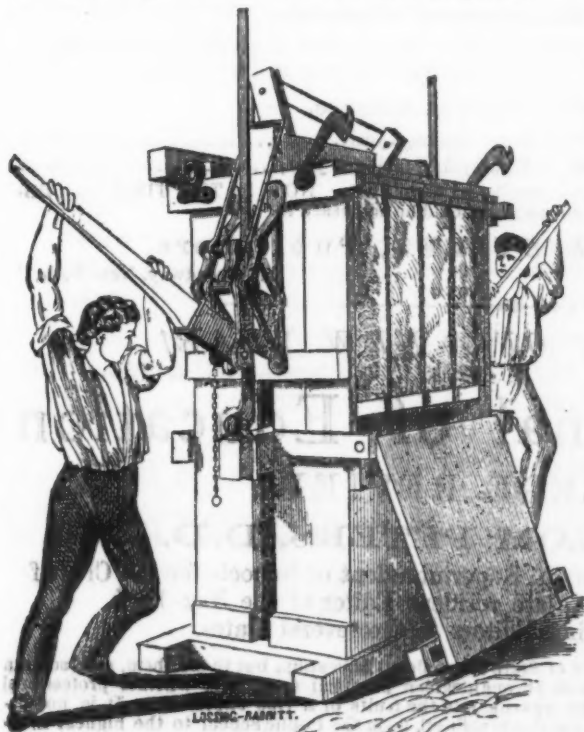
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OF THE

United States Democratic Review,

FOR 1857.

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The Book will contain Portraits of the President, the Vice-President, Secretary of State, Secretary of War, Secretary of the Navy, Secretary of the Treasury, Secretary of the Interior, Postmaster General, and Attorney General, engraved on steel by the celebrated Artist, BUTTRE. Each Portrait will be accompanied by a Biography, carefully prepared from authentic sources. The letter-press will be printed with type made expressly for this work, and on the finest paper. The book will be in quarto form—handsomely bound, with side title, and, as a Work of Art, will be the most elegant book ever presented to the public.

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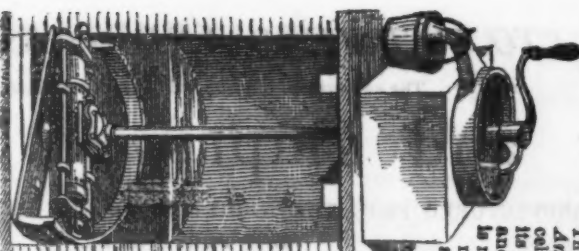
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ROTARY FORCE PUMP.



This pump has just been patented in America and England, and far exceeds any pump heretofore invented; its peculiarities are simplicity, power, and cheapness. Its simplicity: there is nothing about it but iron and cast metal, and it can be taken apart and put up by any one, and will last for an age. It has the power to raise water hundreds of feet, with the extra expense of \$9 and the price of pipe. Water rises in it by hand 100 feet per minute! For cheapness: a No. 1. pump (for all ordinary purposes) complete, and fifty feet of pipe, costs but \$30! The handle at the top, turns the pipe and pump, and every revolution fills the cylinder twice, affording an abundant supply of water with the least possible expense and labor. It is peculiarly adapted to deep wells, salt water stations, salt works, mining and manufacturing purposes. Wherever it is introduced, the old force, suction and chain pumps will disappear. Practical and scientific men pronounce it as without an equal, for all that is here claimed for it. The Scientific American, after seeing it in operation, says: "This pump is very simple in construction, not liable to get out of order, durable, easily operated and economical; we regard it as an excellent improvement." Circulars with an accurate drawing and full description sent free of charge to all parts of the country. No. 1, has a one inch pipe; No. 2, 1 1/4 inches; No. 3, 1 3/4 inches; and the prices \$30, \$42, \$54; the No. 3 and 3 are designed for very deep wells, railroad stations, &c. where much water is required. The subscriber is the general agent for the sale of these pumps to all parts of the world, and exclusive agent for New York. Orders must be accompanied by the cash, and should be explicit as to the kind of pump wanted, depth of well, shipping address, &c. They will meet prompt attention. A pump and pipe weighs about 170 lbs. No charge for shipping or cartage. Wells over 50 feet should have extra gearing, which costs \$3.

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Nor have Burglars, after repeated attempts, ever been able to pick our POWER AND BURGLAR PROOF LOCKS. These Safes have the precedence in the Government Offices at Washington, and are introduced in preference to others in the Patent Office, for the safe deposit of Government Jewels.

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For Wheat, Rye, Oats, Barley, Buckwheat, Hemp, Flax, Cotton, and Rice; also, all kinds of Grass-Seeds, together with Guano, Lime, Plaster, Bone-Dust and Ashes; Corn, Peas, and Beans, when not planted in hill.

So simple and cheap an agricultural implement, it is believed, has never before been offered to the public.

The great amount of labor and the large per centage of seed saved by the use of this machine, make it for the interest of every farmer, of however limited means, to own one.

There being no valves to clog, or machinery of any kind to look after, the cheapest of help can operate it with facility.

A hand-machine, costing only \$35, will sow from twelve to fifteen acres daily; larger machines, using one or more horses, will sow from fifty to one hundred acres daily, and do the work in such manner, that the same quantity of seed will lie upon each square foot, rod, or acre of soil.

For further information, or rights to manufacture and use, address

Mar. 5th., 12

WM. S. SAMPSON, Proprietor, Boston, Mass.

TO FARMERS AND GARDENERS.

The subscribers offer for sale 40,000 barrels of their

New and Improved Poudrette,

MANUFACTURED FROM THE NIGHT-SOIL OF NEW-YORK CITY, IN LOTS TO
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This article (greatly improved within the last two years) has been in the market for eighteen years, and still defies competition, as a manure for Corn and Garden Vegetables, being *cheaper, more powerful than any other*, and, at the same time, *free from disagreeable odor*. Two barrels (\$3 worth) will manure an acre of corn in the hill, will save two-thirds in labor, will cause it to come up quicker, to grow faster, ripen earlier, and will bring a larger crop on poor ground than any other fertilizer, and is also a preventive of the cut-worm; also, it does not injure the seed so be put in contact with it.

The L. M. Co. point to their long-standing reputation, and the large capital (\$100,000) invested in their business, as a guarantee that the article they make shall always be of such quality as to command a ready sale.

Price, delivered in the city free of charge and other expense: One barrel, \$2; Two barrels, \$3.50; Five barrels, \$8; Six barrels, \$9.50; and at the rate of \$1.50 per barrel for any quantity over six barrels.

A Pamphlet, containing every information, will be sent (FREE) to any one applying for the same. Our address is,

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PHILADELPHIA, WILMINGTON AND BALTIMORE RAILROAD. On and after MONDAY, December 1st, 1856, PASSENGER TRAINS LEAVE PHILADELPHIA FOR

Baltimore at 8 A. M., 1 P. M. (Express), and 11 P. M.
Wilmington at 8 A. M., 1, 3.30, and 11 P. M.
New-Castle at 8 A. M., and 1 and 3.30 P. M.
Middletown at 8 A. M., and 3.30 P. M.
Dover at 8 A. M., and 3.30 P. M.
Seaford at 8 A. M., and 3.30 P. M.

TRAINS FOR PHILADELPHIA LEAVE
Baltimore at 8.40 (Express), 11 A. M., and 6.45 P. M.
Wilmington at 8 and 11.45 A. M., 2.38 and 10.10 P. M.
New-Castle at 7.30 and 11.05 A. M., and 9.30 P. M.
Middletown at 10.05 A. M., and 8.19 P. M.
Dover at 8.50 A. M., and 6.55 P. M.
Seaford at 6.45 A. M., and 4.10 P. M.

TRAINS FOR BALTIMORE LEAVE

Wilmington at 9.15 A. M., 2 P. M., and 12.17 A. M.

BALTIMORE and HAVRE-DE-GRAVE ACCOMMODATION TRAIN LEAVES

Havre-de-Grace at 7.45 P. M.

Baltimore at 3.34 P. M.

FREIGHT TRAINS, WITH PASSENGER CAR ATTACHED, LEAVE

Philadelphia for Perryville and intermediate places at 6.60 P. M.

Wilmington for Perryville and intermediate places at 8.10 P. M.

S. M. FELTON, President.

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"For example: the potash alone may be taken at an average as five per cent. of the whole weight of the Marl—a bushel, when dry, weighs eighty pounds, and in the proportion mentioned would contain four pounds of potash; this is nearly as much as there is in a bushel of *unleached Wood Ashes*," &c. Again: "It is probable that the great value of the Marl is to be found in the fact, that it contains nearly all the substances necessary to make up the Ash of our common cultivated plants."

Price, delivered on board vessel, at the wharves of the Company, at Portland Heights, N. J., SEVEN CENTS PER BUSHEL.

For further particulars, see Circular, sent free of postage. Orders for other Fertilizers will receive prompt attention. Address either of the undersigned.

TAPPEN TOWNSEND, Treas., No. 82 Nassau St.

CHAS. SEARS, Prest., Riceville.

GEO. W. ATWOOD, Sec'y, 16 Cedar St.

Oct. 1y.

PEABODY'S NEW SEEDLING STRAWBERRY.

THE Subscriber has originated a New Seedling Strawberry, which combines more good qualities to make up a perfect berry, than any berry ever yet introduced, viz.: It is of the largest size, measuring six and seven inches in circumference; it is of beautiful form, attached to the calyx by a polished, coral-like neck, without seeds; rich, deep crimson color; fruit borne on tall foot-stalks, of the most exquisite pine flavor; flesh firm, melting, and juicy; and bears transportation better than any Strawberry ever yet cultivated.

We have produced this new seedling by crossing the Rose Phoenix with a wild Strawberry of Alabama. It is hermaphrodite in its character, producing fruit without the aid of an impregnator, being a capital impregnator itself for pistillate varieties. It is a hardy, vigorous grower, withstanding both cold and heat without injury. In good soil the vine grows to an enormous size—we have single plants that can not be covered with a half-bushel measure. The fruit is borne upon tall stalks, suspended on stems from three to five inches long, attached to the calyx by a polished, coral-like neck, without seeds; there being very few seeds in the berry. It is of singular and beautiful form, somewhat irregular, and sometimes compressed of the largest size, frequently measuring seven inches in circumference; flesh firm, melting, and juicy, and of the most exquisite pine flavor, requiring no sugar for the desert, rivaling the far-famed Burr's New Pine. It is a prolific bearer, opening its blossoms during the mild days of winter, and perfecting its fruit as soon in the spring as the weather will permit. When fully ripe, the color is of a rich, dark crimson. But its rich color, beautiful form, magnificent size, and exquisite flavor, are not all its recommendations; through its firmness and lack of acidity, it bears transportation better than any strawberry ever yet introduced.

I will be prepared to send the plants out whenever the following terms are complied with. Not a plant of this variety has ever left my grounds, nor ever will, until the proposition below is subscribed to. I propose to get one thousand subscriptions, at \$5 per dozen plants, throughout the whole country. Subscribers, on forwarding their names and post-office address, with the number of dozen desired, will receive, by return mail, a beautiful colored plate of the vine and fruit, drawn from nature; and as soon as the thousand subscriptions are made up, I will notify each subscriber, when the money may be mailed to me, and I will put the plants up in moss, envelop them in oil-silk, and forward them by mail. By this method, they can be sent to any part of the Union with safety and dispatch. I have sent packages of 100 of the common strawberry, 1,000 miles by mail, without the loss of a plant. Packages of one dozen will go through the mail as certainly as a letter.

Subscribers, on receiving the colored plates, will please show their friends, that it may hasten the completion of the list. From one dozen plants, one thousand may be produced the first year. This plant is the hermaphrodite, always bearing perfect crops of fruit without an impregnator.

Directions for the culture of this plant will be sent with each colored plate.

CHARLES A. PEABODY.

COLUMBUS, GA., October 1, 1856.

EUROPEAN, LAND AND GENERAL AGENCY, 334 Broadway, New-York, up stairs.

The subscribers having procured, at a very great expense, complete lists of all Unclaimed Dividends of Bank of England, East India and South Sea Company's Stocks; and also a list of all the Heirs-at-Law and Next-of-Kin Advertisements that have appeared in the European papers during the last century; they have peculiar facilities for prosecuting Claims to European property; and as it is the intention of one of the firm to visit Europe annually, or oftener, if required, the expense of managing the business there, would be but trifling to the claimants, compared to sending a special messenger for that purpose. Searches for any one name in the above lists can be made either personally or by letter, on receipt of One Dollar; and copies of advertisements can be had for a reasonable compensation.

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We would respectfully inform Inventors and Patentees, that in connection with our EUROPEAN, LAND, AND GENERAL AGENCY business, We have opened an office for the exhibition of MODELS, and also for the sale of PATENT RIGHTS, in the United States and Europe.

From our extensive acquaintance and correspondence, we flatter ourselves that we possess facilities for the sale of Patent Rights second to none in the country.

Our terms will be moderate, and all business entrusted to us will receive prompt attention.

We should be pleased to have the favor of your patronage.

Sept., 1856. *if.*

J. A. KNIGHT & Co.

NEARLY READY, WITH SUGAR-CANE SEED GRATIS.

CHINESE SUGAR-CANE, AND SUGAR-MAKING: Its History,

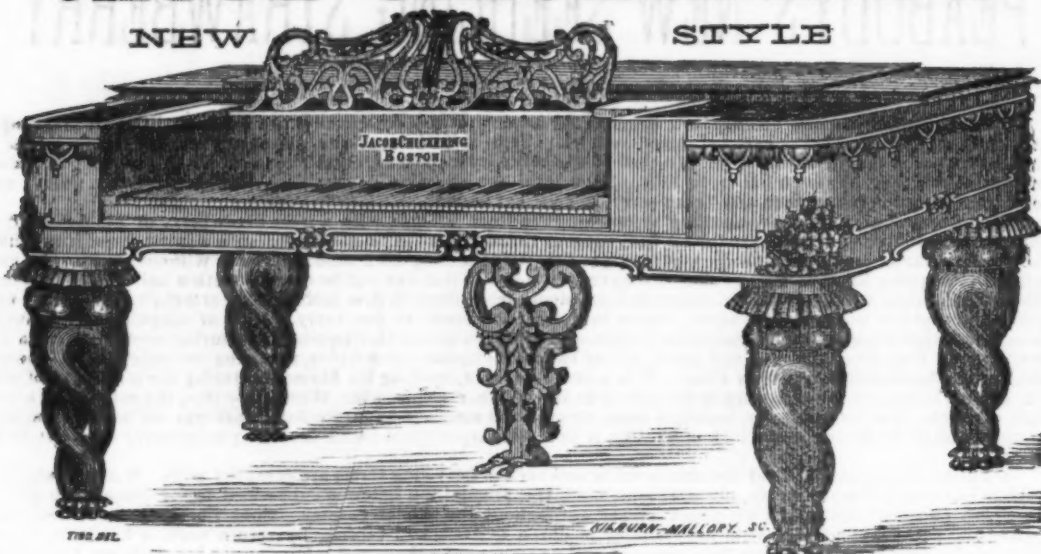
Culture, and Adaptation to the Soil, Climate, and Economy of the United States, with an account of various processes of manufacturing Sugar, drawn from authentic sources. By CHARLES F. STANSBURY, A. M., Late Commissioner at the Exhibition of the Industry of all Nations, at London. Price, 25 cents. Published by C. M. SAXTON & CO., 140 Fulton Street, New-York.

N. B.—To persons enclosing 25 cents, and a three-cent P. O. Stamp, to us, we will send the above book, and SEED ENOUGH TO PLANT TWO RODS SQUARE.

11feb.

C. M. SAXTON & Co., 140 Fulton Street, N. Y.

JACOB CHICKERING'S NEW STYLE



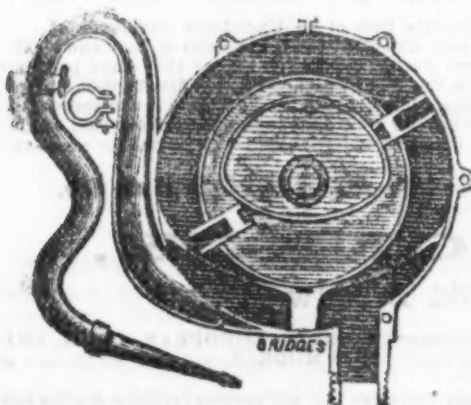
PIANO FORTES. 300 WASHINGTON-STREET, Boston, Mass.

Mr. C.'s facilities for Manufacturing PIANO FORTES enable him to furnish them at WHOLESALE as well as at RETAIL.

The Instruments being made under his immediate supervision, and at his OWN Factory, he will WARRANT them to be of the FIRST CLASS—to stand good in any Climate, and TO GIVE SATISFACTION, or he will refund the money.

All inquiries as well as orders will be promptly answered. Those ordering by mail will be honorably served, and not be losers by so doing. Second-hand pianos taken in exchange. Prices low.

A. W. CARY'S ROTARY FIRE-ENGINE PUMPS.



Sept. 18-1y.

THE Inventor, after thoroughly testing this engine pump, for the past two years, feels confident that it is not equalled by any thing now in market, in the way of raising or forcing water; the motion being rotary, the stream is constant, without the aid of an air vessel. The packing is self-adjusting, very durable, and can not well get out of order.

These pumps are well calculated for all the purposes for which pumps or hydrants may be used, viz., Factories, Steamboats, Tanneries, Breweries, Distilleries, Railroads, Water Stations, Hotels, Mines, Garden Engines, &c.

Among the many testimonials given of this pump, is a gold medal awarded at the last great Fair of the American Institute.

No. 1 is a house or well pump and domestic Fire Engine, and will raise from 20 to 30 gallons per minute.

No. 2 will raise 100 gallons at 120 revolutions.

No. 2½ " 200 " 120 "

No. 3 " 300 " 120 "

The quantity raised can be doubled, by doubling the revolutions. These machines are manufactured and sold by the subscribers at Brockport, N. Y.; also in this city, 240 Broadway.

CARY & BRAINERD.

MANHATTAN LIFE INSURANCE COMPANY

146 BROADWAY, N. Y., CORNER OF LIBERTY STREET.

CASH CAPITAL AND ACCUMULATION, \$350,000.

\$100,000 deposited with the Comptroller of the State for the security of all policy holders. Persons insuring with this company, will be entitled to their pro rata share of the dividends. The rates and principles adopted have stood the test of experience, and must secure, beyond contingency, the object for which Life Insurance is effected—immediate and permanent aid to the WIDOW AND ORPHAN.

C. Y. WEMPLE, *Secretary.*

N. D. MORGAN, *President.*

ABRAM DU BOIS, M. D., *Medical Examiner*, attends at the office daily, from 2 to 3 o'clock P.M. Prospectuses to be had at the office, gratis.

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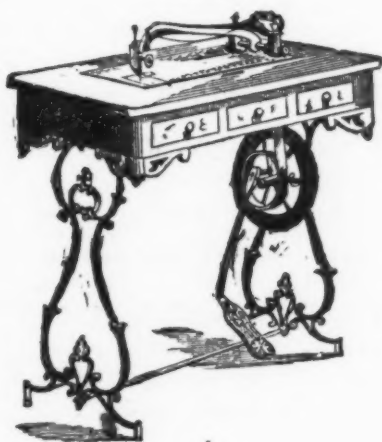
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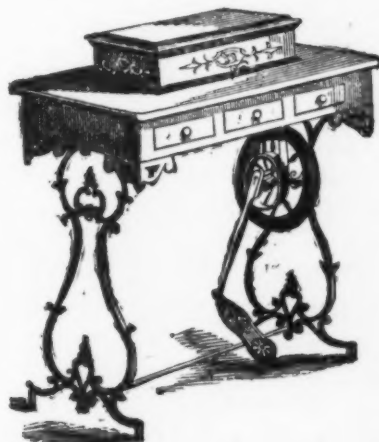
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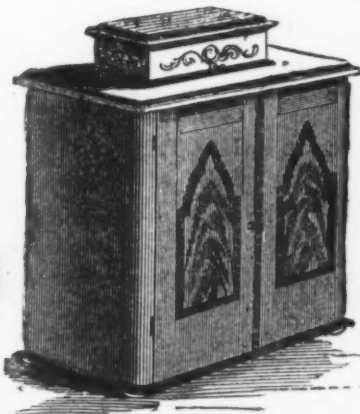
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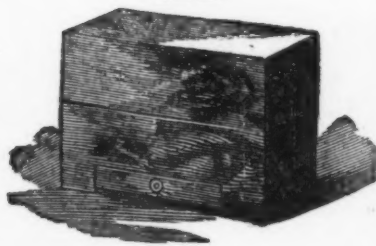
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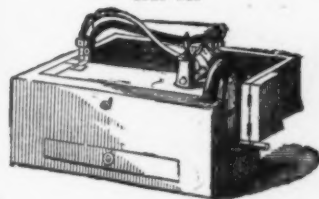
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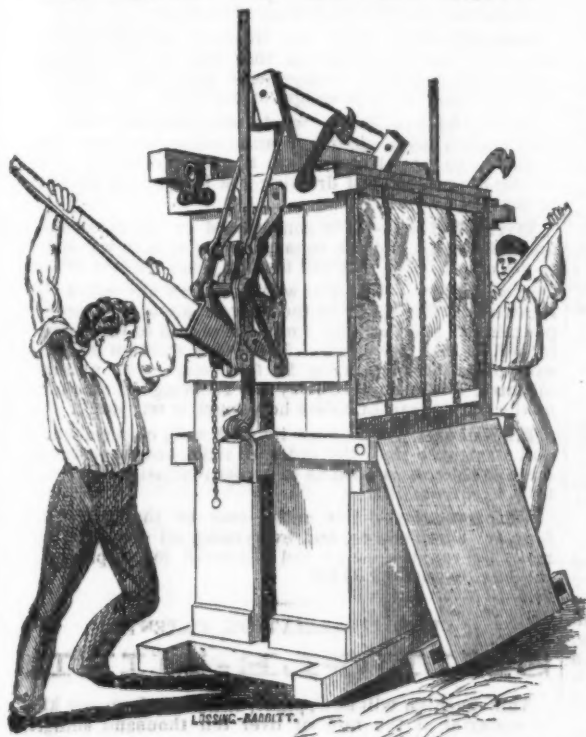
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In answer to the many inquiries relative to the cubical contents of the Bale, the pressing room, size, weight, etc. of Ingersoll's Improved Hay and Cotton Presses, manufactured by this Co., the following descriptions of the various sizes are given:



HAY PRESS. Size No. 1. Price, \$50.

This and No. 2 will cost a few dollars more, when wanted for articles requiring sacking.

The pressing-room of this machine is 43 cubic feet, and a man will tread in this space readily, of loose Hay or Straw, 150 to 200 pounds; it can be used on the same floor where the articles are to be pressed, requiring only 2 hands, and occupying a space of 5 feet by 2½ feet, and 6 feet high.

The upper dressing beam and board are hinged and operated by a small lever, easily, quickly, and satisfactorily. Two men, accustomed to baling hay, etc., can bale from 5 to 6 tons per day, and as the bale is tied or hooped, and the pressing-board lowered, it is left entirely free to be turned out. The size of the bale is 26 inches wide, 28 inches thick, and 46 inches long, containing 19 to 20 cubic feet. Weight of the Machine, 800 pounds.

WOOL AND RAG PRESS. Price, \$65.

The pressing-room, size of the bale, &c., here, is the same as that of No. 1, unless otherwise ordered, and as all such articles as Wool, Rags, Flax, Hemp, Hides, Hops, Hair, Husks, Hay, Broom-Corn, Dry-Goods, Paper, &c., some of which require sacking, and all hard pressing. This machine is ironed and finished in the most durable manner. The weight of bale will range from 200 to 400 pounds. Many of these presses are now in use, giving the greatest satisfaction. They possess the most superior advantages over any other press manufactured for the South American and California markets.

HAY PRESS, Size No. 2. Price, \$75.

The pressing-room of this machine is 62½ cubic feet, and will contain of loose hay, trod down, 300 to 350 pounds. The size of the bale will be 30 inches wide, 30 thick, and 50 long, containing 26 cubic feet. The outside dimensions of this press—7½ feet high, 5½ long, and 3¼ wide. Weight about 1200 pounds.

Machines for pressing bales of 400 lbs., or more, for shipping, when hard pressing is required, can be made to order, and to any length or breadth of bale required. But the pressing-room, it will be observed,

must be sufficient to contain the number of pounds of any article required to be put into the bale. The expense of Machines, of course, will be in proportion to the amount of power required for use.

These Presses, possessing superior advantages over the Horse-Power, and other heavy and bulky Machines, have gained much reputation among the farmers wherever they have been used, and orders have been filled to go into most of the States, Nova Scotia, South America, and Mexico.

COTTON PRESS. Price, \$175.

This economical, portable, and highly approved Press, has been thoroughly tested, and we would especially call the attention of planters and others to this improvement before purchasing elsewhere. The pressing-room is 65 cubic feet. It will hold of cotton, if properly trod down, 500 pounds. The bale will be 5 feet long, 2 feet wide, and 2½ thick; containing 25 cubic feet, or 20 pounds to the foot. Outside measure—7½ feet high, 7 feet long, 3 feet wide. Weight about 1800 pounds.

TOBACCO PRESS. Price, \$125.

This Press is also very strong, and heavily ironed, possessing great power, and occupying but little room, and adapted to pressing tobacco into the hogshead without the loss of time and labor common to the Screw Press. The cask sets on the pressing platform, and is pressed up against a suitable head-piece; then lowered, filled, and pressed again, and so on until the cask is full. This is accomplished with great facility and convenience, and may be done with two hands. The portability, the small space occupied, and the low price of this Press, are advantages which cannot fail to meet with the approval of planters, and a large sale throughout the tobacco growing States.

The Presses are so compact, that they are sent by ship, canal, or railroad, most conveniently, and in the best order, without being taken to pieces; thus saving expense to the purchaser.

This improvement, combining the principle of a continuous lifting power, is at once very great, very compact, and very cheap; being much quicker, and in many applications more convenient than the screw, and we are prepared to furnish it on short notice, combining more or less power, for Cider Mill Presses, Cheese Presses, Oil Cake, Cloth or Paper, and also for raising vessels, moving buildings, pulling stumps, etc.

The license for any of the States will be sold separately, if desired, for the purpose herein specified. Persons wishing to engage in making and selling these various indispensable Machines, will find, on application to this Company, a rare chance for an investment.

This Company also manufacture Ingersoll's Improved Hand-Power Machine, for sawing down trees, and other purposes. Patented Oct. 14, 1856. Orders for Machines filled without delay; price, \$75. State and County rights for sale. A full description will appear hereafter.

Machines on hand, and orders filled for any size, without delay. Address,

Farmers' and Mechanics' Manufacturing Co.,

Green Point, (Brooklyn,) Long Island.

FARMERS, PLANTERS, MECHANICS, READ! READ!

Willard's Patent Planter and Sower.

To the Agriculturist this is undoubtedly one of the most valuable inventions of the age. It is intended for the following purposes:

First—For harrowing and mellowing the ground. For this use we have a pair of iron wheels about the size of an ordinary cart. On the outside of each wheel is a grooved pulley a little smaller than the wheel itself, which connects, by means of a chain belt, to a revolving harrow. Thus, as the cart is drawn forward, the harrow is made to revolve with great rapidity in the opposite direction from its forward motion, harrowing up the ground instead of matting it down, and tearing to pieces any stubble, sods, or manure, and leaving them behind instead of drawing them together into bunches, as with the common harrow. Any piece of ground may be harrowed and mellowed with this patent revolving harrow much more rapidly and efficiently than with a harrow constructed on any other plan.

The next use of the machine is for sowing broadcast. For this purpose we have two cylinder holders placed between the wheels, which are made to revolve by means of belts passing around grooves on the inside of the hubs. The grain is placed in these holders and drops out through screens, as the holders rotate, and is covered with the revolving harrow. The seeds are evenly distributed, and the machine may be regulated to sow any given amount to the acre with perfect accuracy.

The next arrangement is for sowing in drills. For this purpose the holders are regulated so as to drop the seeds into the drills prepared by small furrowers attached to the axle just ahead. The revolving harrow is taken off, and a cover for each furrow is attached in its place, constructed so as to hoe the light dirt on to the furrow and compressing it upon the seeds.

The arrangement is the same for planting in hills, excepting that the guides are changed so as to drop the seeds into hills. It can be regulated to drop any number of grains in each hill, to make the hills any distance apart, and to cover to any depth that may be required. This attachment for planting and covering is very simple, and so ingeniously arranged as to prevent the large lumps and stones from being thrown upon the grain, while it compresses the dirt upon the seeds much better than could be done with either hoe or roller.

Another very valuable feature about this machine is an attachment for preparing cotton seed, consisting of an extra cylinder in which the seed is placed, made to revolve by the motion of the wheels in the same manner as the other. By this arrangement the seed is prepared at the same time it is being dropped, and can be planted with this machine without rubbing or any other preparation.

The whole machine is extremely simple in its construction, is no more liable to get out of order, and is as easily worked as any ordinary agricultural implements. Although entirely new, it is no doubtful experiment, as it has been thoroughly tried for all purposes, and its practical operations exhibited during the last season at various State Fairs, commanding in all cases the universal admiration of the whole agricultural community.

Prices, including right to use in the County.

Machine complete,.....	\$100
Machine complete, without the extra attachment for preparing cotton seed,.....	80
Machine for sowing broadcast and harrowing only,...	70

Parties purchasing the first machine in their section will have fine inducements offered them to act as agents. The machines are carefully boxed, and may be sent by express, or as freight, to any section of the country.

THE COMBINATION PATENT PORTABLE UPRIGHT STEAM SAW-MILL.

This Mill commands the universal admiration of saw-mill men everywhere. As its merits become known the demand for it increases. Orders are coming from every

section of this country, Canada, Cuba, and South America. It is suited for every section of the world wherever there is timber to be sawed, no matter of what character, how hard, how large or small. Two extensive manufacturing are now engaged in building these mills, yet it is almost impossible to turn them out as fast as they are wanted. They embrace several valuable patents and improvements, and combine all of the following advantages:

Simplicity.—Both the Mill and Power are so simple in their construction that any one of ordinary mechanical ability can comprehend them, put them up, and run them, without danger or difficulty.

Portability.—The whole establishment can be very quickly taken apart and put together, thus rendering it easy to be moved from place to place, as desired, and saving the necessity of drawing the logs a long distance to the mill.

Durability.—It is constructed in the most solid and substantial manner, runs perfectly still, is not liable to get out of order, and will last for years without repair.

Rapidity.—It will saw faster than any other Upright Mill. The speed of the saw is about 300 strokes per minute, and the feed from one-eighth to three-quarters of an inch per stroke. Thus, at a medium feed, the saw will cut through a log 24 feet long in about three minutes. From this data, any one knowing the character of the timber, can calculate how much it will do.

Efficiency.—It does its work well, cuts smoother and straighter than the ordinary mills, and the arrangement of the saw is such as to render it utterly impossible for it to run out of line.

Cheapness.—The entire cost of the Mill, with fourteen horse-power, and everything all complete and ready for running, boxed and delivered for shipment in this city, is only \$1,650.

THE COMBINATION PATENT SHINGLE-MILL.

This machine will saw, plane, and joint, from any kind of material, at the rate of over ten thousand shingles every twelve hours.

PORTABLE BURR-STONE GRIST-MILL,
capable of grinding from twenty to thirty bushels per hour.

Portable and Stationary Engines of all sizes, Circular Saw-Mills, Planing Machines, Mandrels, Pulleys, Circular Saws, Lathes, Tools of all kinds, Horse-Powers, &c., &c., at the lowest prices.

UNITED STATES JOURNAL,

The largest monthly paper in the world. It contains each year an amount of reading matter sufficient to fill three ordinary octavo volumes—more than double the amount that can be obtained for the same price in any other publication. It contains a complete monthly record of new inventions, improvements, and valuable information, in every department of life, and review the current events throughout the world. Each number contains several fine engravings, and there is prepared each year a series of valuable illustrated articles on the subject of

IMPROVED MACHINERY,

which will be worth more to every farmer and every mechanic than ten times the price of the *Journal*.

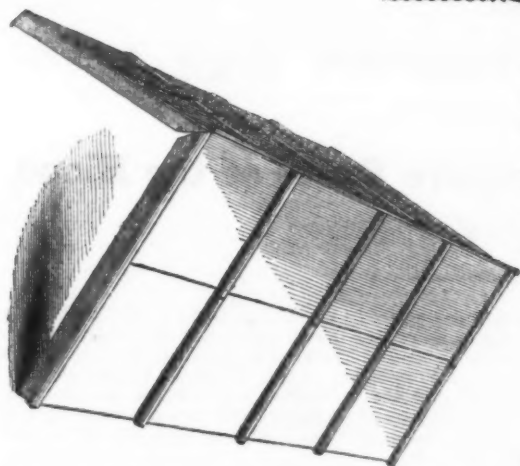
Subscription price, 50 cents a year.

Send for specimen copies of the *Journal*, and for a list of our valuable machinery.

J. M. EMERSON & Co., 1 Spruce St., N.Y.

A. G. BRAGG, St. Louis, Mo.

NEW SHEET METAL ROOFING.



THE Subscriber, having obtained Letters Patent for the above roofing, is ready to make sale of the same, by territories or otherwise, on liberal terms. It can be fitted in one-sixth the time required by any other roofing. The joints run from ridge to eaves, and may be continued, on circular roofs, from eave to eave. The cross seams expand and contract without affecting the joint, or drawing nails. Most of the work can be done in the shop, at a great saving of time and labor. MACHINES for forming the roof, will also be sold.

For information, apply to

WM. H. TRISSLER,

FAIR VIEW, Erie Co., Pa.

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DEY STREET HOUSE,

54, 56, and 58 DEY STREET,

NEW-YORK,

KEPT ON THE EUROPEAN PLAN,

Meals at all hours of the Day.

LODGING ROOMS, FIFTY CENTS. CROTON WATER IN EVERY ROOM.

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WILLIAM M. LANGLEY, Proprietor.

H. U. BURROUGHS,

No. 48 SOUTH FOURTH ST., Philadelphia,

PROPRIETOR OF THE

PORTAGE IRON WORKS,

BLAIR COUNTY, PA. Orders received for all kinds of

LARGE BAR IRON AND NAILS,

Manufactured at the above Iron Works. Also, orders received for

SEMI-BITUMINOUS COAL,

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From the BARNET MINES, Broad Top Mountain, Pa.

LAWTON (or New Rochelle) BLACKBERRY.

We are prepared to fill orders promptly for genuine Plants of this remarkable fruit, carefully packed for shipment to any part of the world, from the largest and most reliable growers, at the following reduced prices, viz:

\$20 per Hundred, \$11 for Fifty; \$4 per Dozen, \$2.25 per Half-Dozen.

Pamphlets treating of the origin, characteristics, and culture of the plant, forwarded on application.

DREW & FRENCH,

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Commission Dealers in Domestic Fruit and Produce, 85 Barclay St., N. Y.

SANDS' SARSAPARILLA,

FOR THE

REMOVAL AND PERMANENT CURE

OF ALL

Diseases arising from an Impure State of the Blood, OR HABIT OF THE SYSTEM.

The value of this Medicine is now widely known, and every day the field of its usefulness is extended. It is approved and highly recommended by Physicians, and admitted to be one of the most powerful and searching preparations from the root that has ever been employed in medical practice. The voluntary testimony of numerous citizens, who owe their restoration to health, under the blessing of Providence, to this celebrated hygeian remedy, proves, that for those who languish under the pain of rheumatism, for the scrofulous, the blotched, pimpled, and disfigured; the sufferers from tumors, cancers, and abscesses; the victims of diseased livers; for the dyspeptic and enfeebled—there is now every reason for hope! Thousands of such cases have been cured by this preparation, and thousands and tens of thousands may yet be restored to health by its use.

CURE OF SCROFULA.

MESSES. A. B. & D. SANDS: Gentlemen—I have for nearly three years been troubled with that dreadful disease Scrofula—so much so as to be offensive to my husband and to myself; and, to obtain relief, have tried every kind of medicine that came under my notice, without effect. One of my neighbors, who had been cured of a similar complaint by your Sarsaparilla, advised me to make a trial of it, and I can truly say that it has done me a world of good, having completely cured me. Hoping that my evidence may induce others similarly afflicted to adopt the same remedy, with the same satisfactory results, I remain gratefully yours,

TROY, N. Y., September 1, 1854.

SARAH A. J. POHLMAN.

Prepared and sold by A. B. & D. SANDS, 100 Fulton Street, New-York. Price \$1 per bottle, or six bottles for \$5.
Sold also by Druggists generally.

ROMAN EYE BALSAM, FOR INFLAMED EYE-LIDS.

The delicate structure of the eye-lid renders it peculiarly sensitive and liable to disease. When, from any cause, it becomes affected, the inner membrane rapidly inflames, and the eye-lid evinces the strongest predisposition to attract to itself humors from all parts of the body. Hundreds of persons of scrofulous habit are disfigured by rawness or redness of the eye-lids commonly called sore eyes, and tortured with apprehensions of impaired vision, who, by using this BALSAM, may obtain almost immediate relief—the irritation allayed, the inflammation reduced, and, in a reasonable time, all appearance of disease removed. In all cases the earlier this remedy is applied the better.

Read the following evidence:

BINGHAMPTON, Jan. 7th, 1854,

MESSES. A. B. & D. SANDS—Gentlemen: Your Roman Eye Balsam, which I was recommended to use for my daughter's eyes, has acted on them like a charm. Her eyes, which had for several months been very much swollen and inflamed, after a few weeks' use of the Balsam, were perfectly cured, and well as ever.

Yours truly, M. FOLEY.

Prepared and sold by A. B. & D. SANDS, Druggists, 100 Fulton Street, New-York. Price, 25 cents per jar.

Sold also by Druggists generally.

CLOVE ANODYNE TOOTH-ACHE DROPS.

The excruciating torment of tooth-ache can be speedily relieved by this delightful remedy, without fear of injuring the gums or teeth. Eminent dentists say they use it daily in their practice, and that it has enabled them to preserve many valuable teeth which must otherwise have been drawn. Try it yourself, and recommend it to others.

Read the following letter from a distinguished practical dentist:

NEW-YORK, December 19th, 1846.

MESSES. A. B. & D. SANDS—Gentlemen: In the course of my practice I have extensively used your Clove Anodyne, with much success, for the relief of the tooth-ache; and as I constantly recommend it to my patients, I deem it but just to inform you of the high opinion I have of it over other remedies.

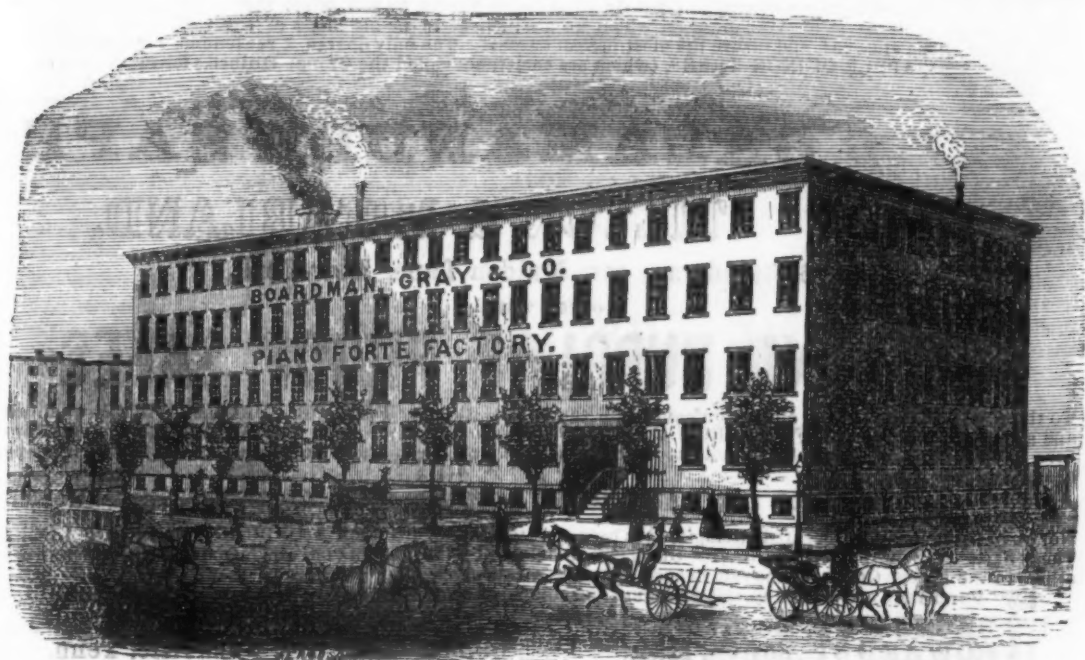
I am, yours respectfully,

M. LEVETT, Dentist.

Price, 25 cents per vial.

The above CELEBRATED REMEDIES are prepared and sold, wholesale and retail, by A. B. & D. SANDS, Chemists and Druggists, 100 Fulton Street, corner of William, New-York; by their authorized Agents, and by Druggists generally.

BOARDMAN, GRAY & CO.,
Dolce Campana Piano-Forte
 MANUFACTURERS,
ALBANY, N. Y.



Grand, Semi or Parlor-Grand, and Square Piano-Fortes,
PLAIN AND ORNAMENTAL.

THE reputation of their Piano-Fortes, for being superior to any made in the United States, they are determined to maintain—using so many NEW AND IMPORTANT IMPROVEMENTS, giving great fullness and sweetness of tone, with clearness, and a remarkably clear, full, bright, musical treble.

ACTION of the most perfect kind, with our own patent improvements, combining lightness of touch, elasticity, with great power. Their patent

CORRUGATED SOUNDING BOARD

Has been pronounced the great improvement of the age in Piano-Fortes, and has proved itself deserving of the name—gaining greatly INCREASED VIBRATING SURFACE AND FULLNESS OF TONE, and never checking, splitting, or warping out of place.

THE CASES are made for solidity and strength, combined with beauty of outline, (and to take up the least possible amount of room,) and, together with

COMPLETE MASSIVE IRON FRAMES,

Enables us to challenge competition in point of durability, and makes our instruments peculiarly adapted to the wants of **Schools and Academies**, being celebrated and remarkable for **KEEPING IN TUNE AND ORDER** for a great length of time. They have been awarded, at different State Institutions, and other Fairs,

FIFTEEN FIRST PREMIUMS, GOLD AND SILVER MEDALS, DIPLOMAS, &C.

With a full determination to make or sell no Piano-Fortes but such as will prove good,

WE GUARANTEE PERFECT SATISFACTION TO EVERY PURCHASER.

Persons on application will be furnished with **ILLUSTRATED PRICE LISTS, CIRCULARS,** etc., containing every information.

PIANO-FORTES WITH OR WITHOUT THE DOLCE CAMPANA ATTACHMENT.

WM. G. BOARDMAN,
 JAMES A. GRAY,
 SIBERIA OTT.

BOARDMAN, GRAY & CO.



ISABELLA AND CATAWBA GRAPE VINES of proper age for forming Vineyards, cultivated from, and containing all the good qualities which the most improved cultivation for over sixteen years has conferred on the Croton Point Vineyards, are offered to the public. Those who may purchase will receive such instructions for four years, as will enable them to cultivate the Grape with entire success, provided their locality is not too far north.

All communications addressed to R. T. UNDERHILL, M.D., New-York, or Croton Point, Westchester County, New-York, will receive attention.

The additional experience of the four past seasons gives him full assurance that, by improved cultivation, pruning, &c., a crop of good fruit can be obtained every year, in most of the Northern, all of the Middle, Western and Southern States.

N. B.—To those who take sufficient to plant six acres, as he directs, he will, when they commence bearing, furnish the owner with one of his Vine-dressers, whom he has instructed in his mode of cultivation, and he will do all the labor of the vineyard, and insure the most perfect success. The only charge, a reasonable compensation for the labor. Also, APPLE QUINCE TREES, (which are sometimes called the Orange-Quince,) for sale as above.

march 2t.]

R. T. U.



SALAMANDER SAFE.

TILTON & MCFARLAND,

172 Broadway, cor. Maiden Lane, New-York,

OFFER THEIR

FIRE AND BURGLAR PROOF SAFES

To the public, as superior to any manufactured in the world, either for FIRE OR BURGLAR PROOF qualities; and are warranted entirely FREE FROM DAMPNES, which is not the case with many others manufactured here. Of the thousands sold by us, not one of the many that have been tested in actual fires of the most intense heat, have the

BOOKS OR PAPERS SUFFERED THE LEAST !

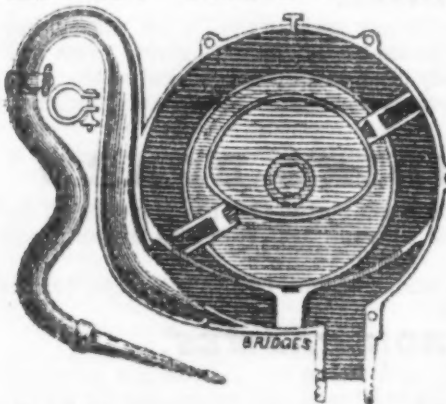
Nor have Burglars, after repeated attempts, ever been able to pick our POWER AND BURGLAR PROOF LOCKS. These Safes have the precedence in the Government Offices at Washington, and are introduced in preference to others in the Patent Office, for the safe deposit of Government Jewels.

Purchasers are invited to call, examine, and compare prices and qualities with other manufacturers!

172 BROADWAY, New-York.
14 HOWARD ST., Boston, Mass.
18 EXCHANGE ST., Portland, Me.

145 PLATT ST., Baltimore, Md.
69 MARKET ST., Nashville, Tenn.
90 BATTERY ST., San Francisco, Cal.

A. W. CARY'S ROTARY FIRE-ENGINE PUMPS.



THE Inventor, after thoroughly testing this engine pump, for the past two years, feels confident that it is not equalled by any thing now in market, in the way of raising or forcing water; the motion being rotary, the stream is constant, without the aid of an air vessel. The packing is self-adjusting, very durable, and can not well get out of order.

These pumps are well calculated for all the purposes for which pumps or hydrants may be used, viz., Factories, Steamboats, Tanneries, Breweries, Distilleries, Railroads, Water Stations, Hotels, Mines, Garden Engines, &c.

Among the many testimonials given of this pump, is a gold medal awarded at the last great Fair of the American Institute.

No. 1 is a house or well pump and domestic Fire Engine, and will raise from 20 to 30 gallons per minute.

No. 2 will raise 100 gallons at 120 revolutions.

No. 2½ " 200 " 120 "

No. 3 " 300 " 120 "

The quantity raised can be doubled, by doubling the revolutions. These machines are manufactured and sold by the subscribers at Brockport, N. Y.; also in this city, 240 Broadway.

CARY & BRAINERD.

Sept. 18-ly.

NEARLY READY, WITH SUGAR-CANE SEED GRATIS.

CHINESE SUGAR-CANE, AND SUGAR-MAKING: Its History,

Culture, and Adaptation to the Soil, Climate, and Economy of the United States, with an account of various processes of manufacturing Sugar, drawn from authentic sources. By CHARLES F. STANSBURY, A. M., Late Commissioner at the Exhibition of the Industry of all Nations, at London. Price, 25 cents. Published by C. M. SEXTON & CO., 140 Fulton Street, New-York.

N. B.—To persons enclosing 25 cents, and a three-cent P. O. Stamp, to us, we will send the above book, and SEED ENOUGH TO PLANT TWO RODS SQUARE.

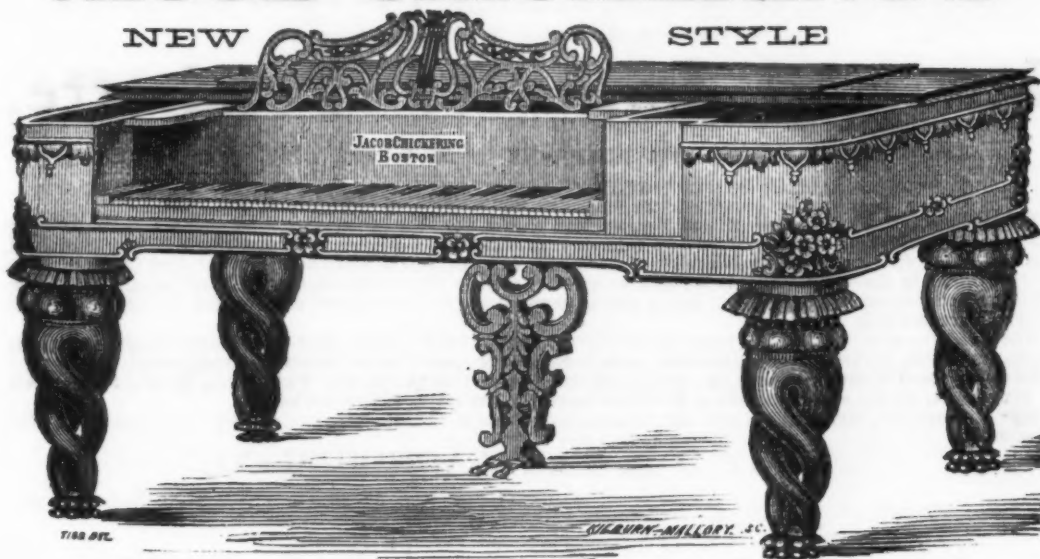
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C. M. SEXTON & Co., 140 Fulton Street, N. Y.

JACOB CHICKERING'S

NEW

STYLE



PIANO FORTES.

300 WASHINGTON-STREET, Boston, Mass.

Mr. C.'s facilities for Manufacturing PIANO FORTES enable him to furnish them at WHOLESALE as well as at RETAIL.

The Instruments being made under his immediate supervision, and at his OWN Factory, he will WARRANT them to be of the FIRST CLASS—to stand good in any Climate, and TO GIVE SATISFACTION, or he will refund the money.

All inquiries as well as orders will be promptly answered. Those ordering by mail will be honorably served, and not be losers by so doing. Second-hand pianos taken in exchange. Prices low.

HERRING'S PATENT CHAMPION FIRE-PROOF SAFES,



With Hall's Patent Powder-Proof Locks—the same that were awarded separate Medals at the World's Fair, London, 1851, and the World's Fair, New-York, 1853; and were the only American Safes that were awarded Medals at the London World's Fair.

These Safes are now admitted to be superior to any ever offered to the public; and the subscribers challenge the world to produce an instance of these Safes failing to preserve their contents through the hottest fires, or a burglar picking the lock.

The subscribers and their Agents are the only persons authorized to make and sell Herring's Patent Champion Safe, with Hall's Patent Powder-Proof Locks.

S. C. HERRING & CO.,

Green Block, 135, 137, and 139 Water Street, and 5 Murray Street, New-York.

O. MAZANGE & CO., Mobile, Ala.

Agents in Alabama,

BALTIMORE AND OHIO RAILROAD.

PASSENGER TRAINS leave Baltimore as follows:

Accommodation, stopping over night at Cumberland, at 6.45 A. M.

Mail, for Wheeling, 8.30 A. M.

Accommodation for Fredricksburg, 4 P. M.

Express for Wheeling, 7 P. M.

TRAINS FOR BALTIMORE leave as follows:

Mail leaves Wheeling at 7.15 A. M.

Express leaves Wheeling at 4.40 P. M.

Accommodation leaves Cumberland for Baltimore, at 8.20 A. M.

Accommodation leaves Frederick for Baltimore, at 9.15 A. M.

WASHINGTON BRANCH.

PASSENGER TRAINS leave Camden Station for Washington, 4.15 and 9.15 A. M.; 3, and 5.15 P. M.

Leave Washington for Baltimore, at 6 and 8.30 A. M., and 3 and 4.30 P. M.

Tonnage Trains

Leave Baltimore, (Mount Clare Junction) at 4.30 A. M., and Washington at 11.10 A. M.

TO FARMERS AND GARDENERS.

The subscribers offer for sale 40,000 barrels of their

New and Improved Poudrette,

MANUFACTURED FROM THE NIGHT-SOIL OF NEW-YORK CITY, IN LOTS TO
SUIT PURCHASERS.

This article (greatly improved within the last two years) has been in the market for eighteen years, and still defies competition, as a manure for Corn and Garden Vegetables, being *cheaper, more powerful than any other*, and, at the same time, *free from disagreeable odor*. Two barrels (\$3 worth) will manure an acre of corn in the hill, will save two-thirds in labor, will cause it to come up quicker, to grow faster, ripen earlier, and will bring a larger crop on poor ground than any other fertilizer, and is also a preventive of the cut-worm; also, it does not injure the seed to be put in contact with it.

The L. M. Co. point to their long-standing reputation, and the large capital (\$100,000) invested in their business, as a guarantee that the article they make shall always be of such quality as to command a ready sale.

Price, delivered in the city free of charge and other expense: One barrel, \$2; Two barrels, \$3.50; Five barrels, \$8; Six barrels, \$9.50; and at the rate of \$1.50 per barrel for any quantity over six barrels.

~~Our~~ A Pamphlet, containing every information, will be sent (FREE) to any one applying for the same. Our address is,

THE LODI MANUFACTURING CO.,

OFFICE, 60 CORTLANDT STREET, NEW-YORK.

PHILADELPHIA AND BALTIMORE LINES.

PHILADELPHIA, WILMINGTON AND BALTIMORE RAILROAD. On and after MONDAY, December 1st, 1856, PASSENGER TRAINS LEAVE PHILADELPHIA FOR

Baltimore at 8 A. M., 1 P. M. (Express), and 11 P. M.
Wilmington at 8 A. M., 1, 3.30, and 11 P. M.
New-Castle at 8 A. M., and 1 and 3.30 P. M.
Middletown at 8 A. M., and 3.30 P. M.
Dover at 8 A. M., and 3.30 P. M.
Seaford at 8 A. M., and 3.30 P. M.

TRAINS FOR PHILADELPHIA LEAVE
Baltimore at 8.40 (Express), 11 A. M., and 6.45 P. M.
Wilmington at 8 and 11.45 A. M., 2.35 and 10.10 P. M.
New-Castle at 7.30 and 11.05 A. M., and 9.20 P. M.
Middletown at 10.05 A. M., and 8.19 P. M.
Dover at 8.50 A. M., and 6.55 P. M.
Seaford at 6.45 A. M., and 4.10 P. M.

TRAINS FOR BALTIMORE LEAVE

Wilmington at 9.15 A. M., 2 P. M., and 12.17 A. M.

BALTIMORE and HAVRE-DE-GRACE ACCOMMODATION TRAIN LEAVES

Havre-de-Grace at 7.45 P. M.
Baltimore at 3.34 P. M.

FREIGHT TRAINS, WITH PASSENGER CAR ATTACHED, LEAVE

Philadelphia for Perryville and intermediate places at 6.60 P. M.
Wilmington for Perryville and intermediate places at 8.10 P. M.

S. M. FELTON, President.

GREEN SAND MARL, OF NEW-JERSEY.

THE NEW-JERSEY FERTILIZER COMPANY is now prepared to receive orders for this important Manure. For all lands upon which ashes are beneficial, the Marl is more than a substitute. Prof. COOK, in his Annual Report to the Legislature, says: "The value of these Marls is best seen in the rich and highly cultivated district which has been improved, *almost made*, by their use; but it may be interesting to examine the causes of their great value in Agriculture, and to compare them with other Fertilizers."

"For example: the potash alone may be taken at an average as five per cent. of the whole weight of the Marl—a bushel, when dry, weighs eighty pounds, and in the proportion mentioned would contain four pounds of potash; this is nearly as much as there is in a bushel of *unleached Wood Ashes*," &c. Again: "It is probable that the great value of the Marl is to be found in the fact, that it contains nearly all the substances necessary to make up the Ash of our common cultivated plants."

Price, delivered on board vessel, at the wharves of the Company, at Portland Heights, N. J., SEVEN CENTS PER BUSHEL.

For further particulars, see Circular, sent free of postage. Orders for other Fertilizers will receive prompt attention. Address either of the undersigned.

TAPPEN TOWNSEND, Treas., No. 82 Nassau St.

CHAS. SEARS, Prest., Riceville.

GEO. W. ATWOOD, Sec'y, 16 Cedar St.

Oct. 1y.

Doctor Hoofland's Celebrated German Bitters,

PREPARED BY Dr. C. M. JACKSON, PHILADELPHIA, Pa.,

Will effectually cure Liver Complaint, Dyspepsia, Jaundice, Chronic or Nervous Debility, Diseases of the Kidneys, and all Diseases arising from a disordered Liver or Stomach—such as

Constipation, Inward Piles, Fullness or Blood to the Head, Acidity of the Stomach, Nausea, Heartburn, Disgust for Food, Fullness or Weight in the Stomach, Sour Eructations, Sinking or Fluttering at the Pit of the Stomach, Swimming of the Head, Hurried and Difficult Breathing, Fluttering at the Heart, Choking or Suffocating Sensations when in a Lying Posture, Dimness of Vision, Dots of Webs before the Sight, Fever and Dull Pain in the Head, Deficiency of Perspiration, Yellowness of the Skin and Eyes, Pain in the Side, Back, Chest, Limbs, &c., Sudden Flushes of Heat, Burning in the Flesh, Constant Imaginings of Evil, and great Depression of Spirits.

The proprietor, in calling the attention of the public to this preparation, does so with a feeling of the utmost confidence in its virtues and adaptation to the diseases for which it is recommended.

It is no new and untried article, but one that has stood the test of a ten years' trial before the people; and its reputation and sale are unrivaled by any similar preparations extant. The testimony in its favor, given by the most prominent and well-known Physicians and individuals in the country, is immense, and a careful perusal of the Almanac published annually by the proprietor, and to be had gratis of any of his agents, can not but satisfy the most skeptical that this remedy is really deserving the great celebrity it has obtained.

Principal Office and Manufactory, No. 96 ARCH STREET, Philadelphia, Pa. Sold by Druggists and Storekeepers in every town and village in the United States and Canadas, at 75 cents per bottle. [Oct56ly.]

MORRIS NURSERIES, WEST CHESTER, Pennsylvania.

THE Subscribers have a large and exceedingly fine stock of the following, at the very low prices annexed:

10,000 Chinese Potato, (<i>Dioscorea Batatas</i>),	\$3 per doz., \$20 per 100.
4,000 New Rochelle Blackberry,	\$3 per doz., \$25 per 100.
200,000 Giant Asparagus, two years,	40 cts. per 100, \$3 per 1,000.
1,500 Houghton's Seedling Gooseberries,	\$2 per doz., \$15 per 100.
25,000 Osage Orange, two years,	\$7 per 1,000.
50,000 Silver Maples, 2 to 4 feet,	\$5 per 1,000.
10,000 American Arborvitæ, 2 to 3 feet,	

Also, a full and complete supply of all kinds of Evergreens, both native and foreign. Deciduous Ornamental Tree of every description. Apple, Peach, Pear, Cherry, and other fruits. Roses, Dahlias, Verbenas; and other greenhouse plants in variety. Our Stock is well selected, thrifty, and well grown. CATALOGUES SENT TO APPLICANTS. Address,

J. L. DARLINGTON & CO.,

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WEST CHESTER, Penn.

GANSE'S PATENT HAND CULTIVATOR

Is not intended to destroy weeds after they are grown, but to prevent them from growing, and so to give the whole strength of the soil to the crop. It is to be used as soon as the row of young plants can be seen, when it cleans it upon both sides at once, within an inch, if you wish, without the possibility of tearing up or covering the most delicate young plant. It runs on wheels, and is worked with great rapidity. A man can go over his patch five times with this tool, while he could once with his hoe. It will not work among stones, or long manure.

"It is a great improvement upon any hand implement."—*New-York Tribune*.

"We have just witnessed its operation, and have no hesitation in recommending it as perfectly adapted to the purpose intended."—*Monmouth Inquirer*.

"It is one of the great labor-savers of the day. It will entirely revolutionize the system of truck tending."—*N. J. Standard*.

From Hon. Wm. H. Conover, an extensive and successful Onion-grower, Freehold, N. J.:

"One man, with one of them, will go over as much land in a day, as five will with common hoes, and do the work much better. If I continue in this gardening business, I would not take one hundred dollars for mine, provided I could not get another."

From Messrs. Olcott & Vail, proprietors of Westchester Farm School:

"We are satisfied with its practical value. In judicious hands, it must accomplish all you could wish for it."

Retail Price, \$6. A discount to dealers. For sale by

JOHN GANSE, Manufacturer,

134 Thompson Street, New-York.

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Is managed by a large and experienced Board of Teachers. Careful attention is given to the health, morals, and mental discipline of Students. Superior advantages are offered in all branches—COMMON and HIGHER, SOLID and ORNAMENTAL—taught in Academies of the highest grade. LOCATION ON THE STONINGTON RAILROAD.

Board, per term, eleven weeks, \$22; Tuition, from \$4 to \$6.75.

The next term, far the most pleasant of the year, opens April 9th. For Circulars, giving full information, address,

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G. W. QUEREAU, Principal.



EVERGREENS

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PARKS,

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Delivered in Baltimore, New-York, and Philadelphia, at the lowest Cash rates, from

Evergreen Nursery, Woodbury, New-Jersey.

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DAVID J. GRISCOM, Prop'r.

SUPER PHOSPHATE OF LIME MANURE.

C. B. DE BURG

Has the pleasure of announcing to his former patrons and other farmers who may wish to improve their Soils, that he has during the past year succeeded in manufacturing from the Gas Works around the city, a superior quality of Sulphate of "Ammonia," in large quantities, and he is now prepared to furnish

C. B. De Burg's Super Phosphate of Lime,

highly charged with "Ammonia," which, from experiments made by scrupulous experimenters, is now acknowledged to be the most valuable element in all kinds of Organic and Artificial Fertilizers. Public State Agricultural Societies, and distinguished Farmers tried many experiments the past season with his preparation side by side of Peruvian Guano and other concentrated Manures, with universal success—detailed accounts of these will shortly be placed before the public for examination. The proprietor is working for future and lasting reputation, and begs to assure his friends that he will spare no pains or efforts to make every package of "Super Phosphate" bearing his name, just what it purports to be.

To avoid imposition or deception being practised, henceforth all packages will be distinctly marked, "C. B. De Burg's No. 1, Super Phosphate of Lime."

Pamphlets, with instructions for use, etc., will be forwarded on application to

C. B. DE BURG, SOLE PROPRIETOR,

WILLIAMSBURGH, LONG ISLAND, NEW-YORK.



EMERY BROTHERS,

ORIGINAL AND SOLE PROPRIETORS OF THE

ALBANY AGRICULTURAL WORKS,

AND

WAREHOUSE, SEED-STORE, AND SALESROOM,

52 STATE STREET, ALBANY, N. Y.,

MANUFACTURERS AND WHOLESALE AND RETAIL DEALERS IN

Emery's Patent Railroad Horse-Powers and Overshot Threshing-Machines and Separators, Agricultural Machines and Implements of the Most Approved Kinds Extant;

Dealers in Grain, Field, Grass, Garden, and Flower Seeds and Fertilizers.

WHOLESALE PRICES FOR 1857.

Emery's Patent Portable changeable two horse power, \$116	Emery's Drag Cross Cut Saw Mill, five feet Saw,....	40
do. do. do. do. one do. do. 85	do. Circular and Drag Saws combined,.....	80
do. Thresher and Separator, 14x26 in. Cylinder, 40	do. Log-ways, with Truck and Roller,.....	20
do. Thresher and Cleaner, 14x26 inch Cylinder, 130	do. Slitting-table and 12 inch Saw for above,....	7
do. Complete set 2 horse machines,.....	do. Clover Mills and Cleaners,.....	50 to 100
do. Complete set 1 horse machines,.....	do. Cider Mill and Press,.....	40 to 45
do. Complete set 2 horse machines for Threshing and Cleaning,.....	do. Corn and Seed Planter for horses or hand, 6 to 14	14
do. Fan Mill, for hand or power, five sizes, ..21 to	do. Churn mach. for horse power, 1 or 2 churns, 12	12
do. Circular Cross Cut Saw Mill, 24 inch Saw, 37	do. Power Corn Shellers, 2 sizes,.....	45 to 55
	do. Dog and Sheep Churn Powers,.....	15

"Messrs. EMERY BROTHERS:—I am pleased with the operation of my Power and Thresher, purchased from you this season, and have got out twenty-seven bushels of wheat per hour. I think I can beat the manufacturers in getting out wheat. My horses are light, weighing but 1,500 pounds at most. Enclosed please find drafts, &c., &c. WM. T. HANNAFORD, Nansmond Co., Virginia, July 7, 1856."

"Messrs. EMERY:—I purchased of an agricultural dealer in Louisville, Ky., June, 1855, one of your patent Horse Powers and Threshing Machines, being the third I have purchased of the kind. We commenced threshing July 5th, have been surrounded with several others of different patterns, have gone through the length and breadth of their circuits, and finished jobs after the most noted machines, and came off victorious in every neighborhood. The first machine I sold. With one of the others my youngest son threshed nearly fifteen thousand bushels wheat and rye, and my eldest son, with the other, threshed ten thousand bushels, and then sold the machine. We could have sold the one we now have long ago, if we had desired to do so. This was all in the bar-

vest of 1855. C. C. TAYLOR, Pulaski Co., Kentucky, January 7th, 1856."

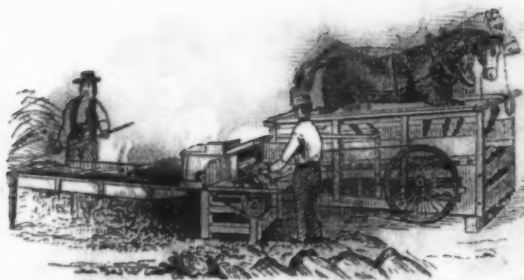
In addition to the above recommendations, which are selected from many hundreds of similar character, should be named the fact that the highest premiums were awarded the above machines over all others at the following State Fairs during the past season:

New-Jersey at Newark,	Iowa at Muscantine,
Pennsylvania at Pittsburgh,	Kentucky at Paris,
Michigan at Detroit,	Tennessee at Nashville,
Ohio at Cleveland,	Tennessee at Knoxville,
New-York at Watertown,	

and at a large number of county and other fairs. They were also exhibited and received special premiums and commendations at the following State Fairs—they being by regulations of the Societies excluded from competition—being out of the States:

Indiana at Indianapolis,	Illinois at Alton,
Wisconsin at Milwaukee,	Georgia at Atlanta,
Virginia at Richmond.	

Albany, January 1, 1857.



EMERY BROTHERS,

Proprietors of the Albany Ag. Works, Albany, N. Y.

Manufacturers and Dealers in Agricultural Machinery—calculated for Horse, Steam, or Water Power.

Among the leading articles are Emery's Patent Railroad Horse Powers and Threshing Machines—with separators, also with cleaners combined.

EMERY'S PATENT HORSE POWERS

are closely imitated and offered in various markets for sale, and not unfrequently as of the genuine manufacture.

To distinguish Emery's Patent Improved Horse Powers from all others, it is only necessary to examine the following points, all of which are important, and give to them their world-wide reputation; none of which are found in other powers. All the castings have the words EMERY or EMERY'S PATENT, in raised letters, on them.

The small shafts of the endless chain have a double shoulder turned upon them, the outer one for keeping the small wheels apart and on the track, and from wearing against the links of the chain. The several geers and pulleys are all confined to their shafts by substantial couplings, with large screws and nuts upon the outside, similar to that upon a wagon axle.

The geers and pulleys can be transposed, and thereby produce several degrees of force and motion required for different purposes; also for making it a right or left-handed power, all of which is done by the simple process of removing the nuts and changing the geers and pulleys, (while with others it is necessary to remove and reverse the shafts themselves, end for end, to change it from right to left, and without the means of varying their force and motion.)

They are also constructed with a complete circuit of heavy cast-iron track, which is not the case with others—thus making a difference in the cost of construction at least ten per cent. greater than the best of others. Their Threshers and Separators are still more expensive and perfect in their construction, the difference often producing results from 50 to 100 per cent. greater than the best of others of similar construction, even when both kinds are driven by the same horse-power.

They are all made right and left-handed, and may instantly be so changed. The pulleys for the cylinder are provided with spring ratchets, and while they drive in one direction they move freely upon the shaft in the op-



posite, thus allowing the horse-power to be stopped instantly and easily without straining the band or gearing—the cylinder being free to run until it loses its momentum.

The Separator crank has a twenty-four inch cast iron face pulley over which the main band passes, giving to it the required motion, the said iron pulley serving as a balance-wheel to the crank, and producing a smooth and steady action or motion. The cylinders are all first balanced stationarily, as with others, but are afterwards subjected and adjusted to a velocity double that required for threshing grain. This last is an important process, often doubling their utility, efficiency, and durability. (The cylinder heads are solid cast-iron and fitted to heavy cast-steel shafts extending through and through.)

The journal boxes are all made in two parts and lined with a composition of tin and antimony—the best known material for the purpose—thus admitting of being adjusted as they may become worn and loose.

The Thresher frames are constructed with a substantial bottom or sill timber, extending nearly the length of the machine, upon the floor or ground, thus giving them a greater base and firmness than when simply standing upon four legs, with narrow base. The concaves are adjustable in every direction.

The cylinders for all their threshers, whether operated by one or two horses, are 26x14 inches, being one-fourth more capacity than those of any other maker for one horse-power, and the same as the largest for two horses.

The frames of the Threshers extend fully to the top, instead of the upper works being constructed by simple planks bolted together edgewise.

No exertions will be spared to meet the wishes of those dealing in and using the class of implements they manufacture. The public may rest assured that the reputation heretofore earned for their machinery, &c., shall be fully sustained, by employing none but the best material and workmanship; and by strict attention to business, they hope to merit and enjoy a continuance of the patronage heretofore so liberally bestowed.

LOCAL AGENTS, in all the principal towns and cities of this and other countries, where none are already established, are solicited, to whom, if well accredited, most liberal terms will be afforded for making this business a safe and profitable investment. All correspondence promptly attended to. Full Descriptive Illustrated Price Catalogues sent gratis on application.

Albany, Jan. 1, 1857.

EMERY BROTHERS.



LYON'S KATHAIRON

Has now become the standard preparation for the HAIR. Its immense sale, nearly ONE MILLION BOTTLES per year, attests its excellence and great superiority over all other articles of the kind. The ladies universally pronounce the Kathairon to be, by far, the finest and most agreeable article they ever used. It RESTORES the Hair after it has fallen out; INVIGORATES and BEAUTIFIES it, giving to it a rich, glossy appearance, and imparts a delightful perfume. Sold by all dealers throughout the United States, Canada, Mexico, Cuba, and South America, at 25 Cents per bottle.

HEATH, WYNKOOP & Co., Proprietors,

63 Liberty Street, New-York.

Manufacturers, also, of Perfumery of all kinds, and in great variety.

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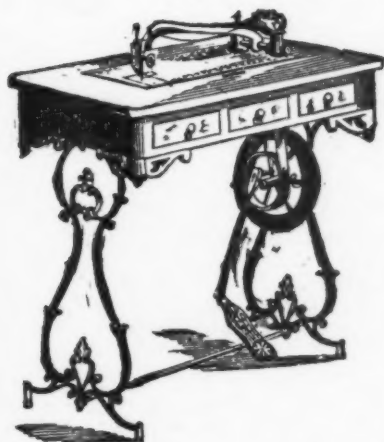
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FAMILY SEWING MACHINES, GROVER & BAKER'S.

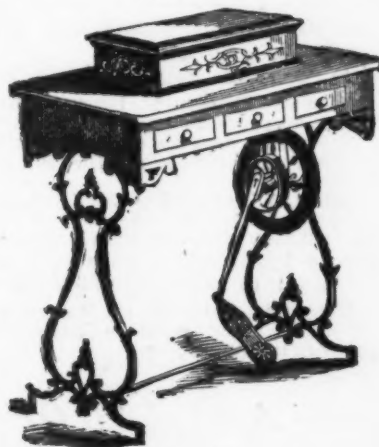
The first place in public estimation, is now justly accorded to the GROVER & BAKER Machine, for family sewing, for the following reasons:

- 1st. It is more simple and easily kept in order than any other Machine.
- 2d. It makes a seam which will not rip or ravel, though every third stitch is cut.
- 3d. It sews from two ordinary spools, and thus all trouble of winding thread is avoided, while the same Machine can be adapted at pleasure, by a mere change of spools, to all varieties of work.
- 4th. The same Machine runs silk, linen thread, and common spool cotton, with equal facility.
- 5th. The seam is as elastic as the most elastic fabric, so that it is free from all liability to break in washing, ironing, or otherwise.
- 6th. The stitch made by this Machine is more beautiful than any other made, either by hand or machine.

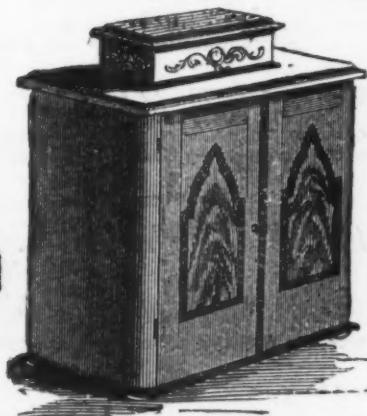
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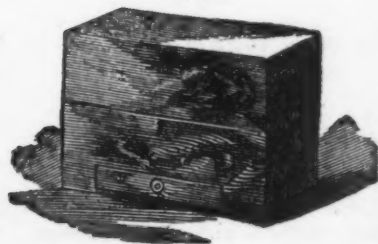
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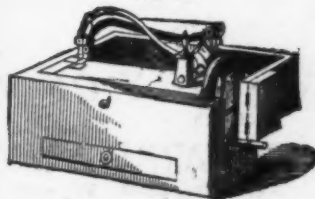
No. 19.



No. 15.



No. 15.



PRICE FROM \$75 TO \$125.

No well regulated family can afford to do without one of these machines. An examination is most respectfully solicited.

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18 SUMMER STREET, BOSTON,
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161 CHESTNUT STREET, PHILADELPHIA.
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G. P. PUTNAM & CO.

HAVE JUST PUBLISHED:

THE BAY PATH. *A Tale of New England Colonial Life*, by J. G. HOLLAND Editor of the *Springfield Republican*.

A romance of very great ability and power, descriptive of Puritan times in Massachusetts. It is worthy of a permanent place by the side of the *Scarlet Letter*, and the *House of the Seven Gables*.

MIND AND MATTER; or, A Series of Essays intended to Illustrate the Mutual Relations of the Physical Organization and the Mental Faculties, by Sir BENJAMIN BRODIE, Bart., D. C. L., Vice-President of the Royal Society, with additional Notes by an American Editor. 1 vol. 12mo. Price, 75 cents.

This work, by unquestionably the highest living authority, sets forth in a concise and popular manner, the recent progress and discovery which has been made in those departments of science which illustrate the mutual relations of the physical organization to the mental faculties. Among the topics treated of are—The Popular Notions respecting Insanity; the Doctrine of Moral Insanity Considered; the Relations of Insanity to Crime; the Unfounded Pretensions of Modern Phrenology; the Relations of the Nervous System to the Mental Faculties; Mind not dependent on Matter; the Speculations of Swedenborg; What is Death? Connection of Death and Sleep; Origin of Dreams; the Mental Faculties of Animals; Are the Modern Systems of Education Correct? &c., &c.

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"A most instructive and amusing book. He must be very accomplished and very good who does not rise from the perusal of it a wiser and a better man. The author is now the foremost man among the helpers of men."—*Frazer's Magazine*.

"An essentially popular book, adapted for beginners, in the study of Mental Physiology—and its popularity is manifested by the demand for a third edition."—*Edinburgh Review*.

PROF. GRAY'S New Botanical Works, for Schools, Colleges, Academies, etc. By PROF. ASA GRAY, of Harvard College.

GRAY'S LESSONS IN BOTANY. *Lessons in Botany and Vegetable Physiology.* Illustrated by over 360 Wood Engravings, from drawings by Isaac Sprague; and with a Glossary, or Dictionary of Botanical Terms. Price, \$1.

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GRAY'S MANUAL OF BOTANY for Schools. *Manual of the Botany of the Northern United States, including Virginia, Kentucky, and all east of the Mississippi.* With six plates, illustrating the new and cheap edition. Price, \$1.50.

The only complete work with which to study the Botany of the United States.

This edition (with only the Mosses omitted) is greatly reduced in price, to adapt it to general use for Classes in Schools, &c. This and the "First Lessons," make a complete series, comprising all that is needed for studying Botany in this country.

THE ANNUAL OF SCIENTIFIC DISCOVERY for 1857, with a portrait of Prof. Jeffries Wyman, by David A. Wells. 1 vol. 12mo. \$1.25.

This work exhibits, in a condensed and popular form, every important Invention, Discovery or Scientific Theory reported during the year, in Mechanics, Physics, Chemistry, Botany, Zoology, Meteorology, Astronomy, Antiquities, &c.

GRASSES AND FORAGE PLANTS. *A Complete Treatise on Forage and Forage Plants, comprising their Natural History, Method of Cultivation, Nutritive Value, Cutting and Curing, &c.* With numerous illustrations. By Charles L. Flint, Sec. Mass. Board of Agriculture. 1 vol. 8vo. \$2.00.

HISTORY OF VERMONT, by B. H. Hall. 1 vol. 8vo.

IRVING'S LIFE OF WASHINGTON.

3 vols. 8vo. \$6.00. The same, 3 vols. 12mo. \$4.50. The same, illustrated—published in Nos., 25 cents each.

N.B.—G. P. PUTNAM & Co. continue to supply the Trade with

KANE'S ARCTIC EXPLORATIONS,

2 vols. 8vo., \$5, at the publishers' prices. A New issue is just ready.

The Household Edition of the **WAVERLY NOVELS**, in 48 vols., elegantly printed, 75 cents each. Published by TICKNOR & FIELDS, Boston. Supplied to the Trade by

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The first Two Volumes will be ready shortly.

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EMERY BROTHERS,

ORIGINAL AND SOLE PROPRIETORS OF THE

ALBANY AGRICULTURAL WORKS AND SEED-STORE,

52 STATE STREET, ALBANY, N. Y.,

Manufacturers of and Wholesale and Retail Dealers in the most
APPROVED AGRICULTURAL AND HORTICULTURAL MACHINES AND IMPLEMENTS EXTANT.
 ALSO,
Dealers in Grain, Field, Grass, and Garden-Seeds and Fertilizers.

Their leading business being the manufacture and sale of their justly celebrated **ENDLESS RAILROAD HORSE-POWER** together with a great number of labor-saving machines, to be propelled by it, for the almost Endless Variety of purposes to which horse-power has been or can be applied for the use of the Farm, Plantation, or Machine-Shop.

All the machinery is constructed with an especial view of its being operated by the Power itself, so that no disappointment will occur to purchasers in their failure to operate as represented; as often does in cases where different machines are obtained from different sources, or from manufacturers whose experience has not enabled them to give this subject its due attention, and which is so important to their best success and profit to the purchaser, the want of which is often the cause of failure and disappointment to both purchaser and seller.

The experience of the proprietors has been more extensive and varied in this branch of mechanism than that of any other firm now in the business of manufacturing agricultural machinery. Their success, as to the satisfactory operation of their numerous machines brought before the public, has been unexampled in this country, either in the number of machines or their utility.

They have submitted their machines to more severe trials, both public and private, during the past six years, than any other, and perhaps than all others together, in the country, and invariably have been successful in winning the prizes where allowed to compete. It may not be amiss to quote some few extracts from letters received from persons using them. Many hundreds of similar character are on file, but those quoted will show what they may be expected to do under fair average circumstances as to kinds and conditions of grains, &c., &c.

From Aaron Chapman, Crawford Co., Pa., Feb. 22, '57.

"Messrs. EMERY BROTHERS:—I received from you in June last, one of your Two-Horse Powers and Threshing Machines. It more than meets my most sanguine expectations. I have had all I could do with mine since threshing season commenced. I think I can sell several the coming season, and would like to have you give me authority to do so, and any instructions which may be necessary, as to terms, &c., &c. Yours, in haste."

From R. J. Wilson, Sussex Co., N.J., Jan. 26, 1857.

"Messrs. EMERY BROTHERS:—I am very well pleased with your Patent One-Horse Power and Threshing Machine. It works to a charm, and far surpasses any thing I have ever seen work. I am satisfied that I can with one horse thresh as much grain as any other kind of machine in this country can do with two horses."

From A. McBryde, of Denmark, Tenn., Jan. 27, 1857.

"Messrs. EMERY BROTHERS—Gentlemen:—With your Two-Horse Power and Thresher, which I use with two mules, much lighter than the Northern Farm Horse, I averaged, the whole season, two hundred bushels wheat threshing per day. The wheat was good; the previous harvest was much injured by rust, and as large results could not be attained."

"Messrs. EMERY BROTHERS—In answer to your inquiry of whom, and what kind of Horse-Powers and Threshing Machines I purchased, I have to say that I purchased it from an agricultural dealer in Louisville, Ky. The castings have the words "Emery's Patent" on them. It was a good machine, and I threshed eleven thousand bushels wheat, and one thousand bushels oats and rye, and my toll brought me one thousand dollars, after paying all expenses, all in the season of 1855. SAMUEL JOHNSON, Bonham, Texas; Jan. 3, 1856.

"Messrs. EMERY BROTHERS:—I am pleased with the operation of my Power and Thresher, purchased from you this season, and have got out twenty-seven bushels of wheat per hour. I think I can beat the manufacturers in getting out wheat. My horses are light, weighing but 1,500 pounds at most. Enclosed please find drafts, &c., &c. WM. T. HANNAFORD, Nansemond Co., Virginia, July 7, 1856."

"Messrs. EMERY:—I purchased of an agricultural dealer in Louisville, Ky., June, 1855, one of your Patent Horse Powers and Threshing Machines, being the third I have purchased of the kind. We commenced threshing July 5th, have been surrounded with several others of

different patterns, have gone through the length and breadth of their circuits, and finished jobs after the most noted machines, and came off victorious in every neighborhood. The first machine I sold. With one of the others my youngest son threshed nearly fifty thousand bushels wheat and rye, and my eldest son, with the other, threshed ten thousand bushels, and then sold the machine. We could have sold the one we now have long ago, if we had desired to do so. This was all in the harvest of 1855. C. C. TAYLOR, Pulaski Co., Kentucky, January 7th, 1856."

From Ira S. Bradley, Litchfield Co., Ct., Jan. 1, 1857.

"Messrs. EMERY BROTHERS:—Your Two-Horse Power has far exceeded my most sanguine expectations. The Thresher and Cleaner Combined, which I first received, did not do so well as I desired, although much better than any other in this section of country; but after receiving the New Straw Carrier you sent me, it has proved a most perfect and satisfactory machine, in every way, equaling the Power itself. Had I purchased it earlier in the season, and it had operated as well as now, I could have made a clear profit of two hundred dollars over what I shall now this season, although I have had all I could do since I purchased it. My oxen, which are light, I find preferable to horses, and the work seems to suit them. They have improved in condition during the whole time, nearly four months, since they have been worked on it."

From Sam'l B. Holt, Orange Co., Vt., Jan. 15, 1857.

"Messrs. EMERY BROTHERS:—I have used several different patterns of Horse-Powers and Threshing Machines the past three years, and had much experience in repairing as well as using them—some with cylinders too heavy and not properly balanced, requiring a greater portion of the power of the horses to operate them, doing a proportionately less amount of work—many are cumbered with numerous bands, &c., &c.; while with the Emery's Patent Two-Horse Power and Thresher and Cleaner Combined, which I purchased of you, a different state of things exists—the straw, chaff, and grain can, if desired, all be cleaned and saved separately, and all with the force of four hands to attend it, the grain being cleaned fit for market—wheat at the rate of twenty bushels, and double the amount of oats, per hour. To those farmers desiring a good machine, I would earnestly recommend Emery Patent Machines complete, for simplicity, ease of operation, and superiority over all others, and would further say that they are not over-estimated or recommended by the manufacturers in their published circulars.

For Prices, Descriptions, Warrants, and Terms, see FULL DESCRIPTIVE PRICE CATALOGUE, furnished gratis to all applications, upon receipt of a three-cent postage-stamp to prepay the postage on them.

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This work is devoted to the maintenance of conservatism as against the various isms of the day, which threaten society at the North, no less than they do society at the South; and in its service some of the ablest writers in the country are engaged. Though national in many respects, and discussing fully the industry and the wealth of our own, and of all foreign nations, this work has more especially devoted itself to an exposition of the South and Southwest, and is almost the only authority upon all matters relating to their institutions and policy.

Booksellers in all cities and towns are authorized to receive subscribers, and deduct the usual commissions; specimen copies will be sent when requested.

Mr. De Bow has lately retired from the Census Office, in which he published several elaborate volumes upon the statistics of the country.

The Review continues to increase its circulation, and subscriptions may begin at any time. Terms, \$5 per annum; to a club of three, \$10; to a club of ten, \$30. Back numbers and volumes can be supplied at the Washington or New-Orleans offices. The first twelve volumes are condensed into three volumes, entitled, "Southern States," handsomely printed and bound. Price, \$5 for the set—1800 pages.

"*De Bow's Review* has been upon our table for several days. This work is well worthy of attention, not only in the section of country in which it is published, but at the North, as it contains a great amount of very valuable information which can not be found elsewhere. It is properly the complement of Hunt's Magazine, and in connection with that work, forms a complete record of mercantile and commercial facts. We commend it to the notice of our readers, and to the favor of all who are interested in the commerce of the South."—*N. Y. Courier & Inquirer*.

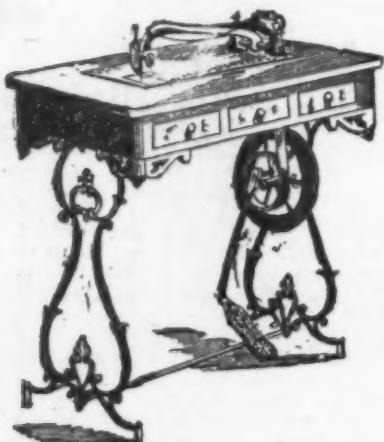
"*De Bow's Review*.—It is amply supported, we learn, at the South; and for this reason, as an accredited organ of the commercial interests of that great region of our country, should find its readers in all circles. We should be more anxious to learn what views are taken of our great producing interests, and of the natural questions which agitate the country at head-quarters."—*Literary World, New-York*.

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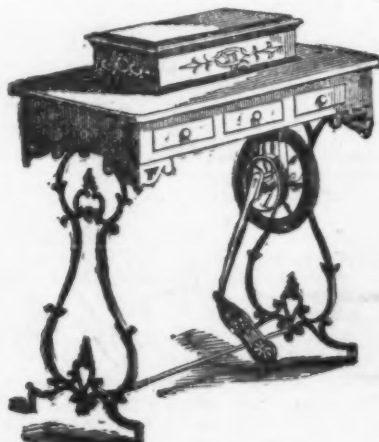
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- 3d. It sews from two ordinary spools, and thus all trouble of winding thread is avoided, while the same Machine can be adapted at pleasure, by a mere change of spools, to all varieties of work.
- 4th. The same Machine runs silk, linen thread, and common spool cotton, with equal facility.
- 5th. The seam is as elastic as the most elastic fabric, so that it is free from all liability to break in washing, ironing, or otherwise.
- 6th. The stitch made by this Machine is more beautiful than any other made, either by hand or machine.

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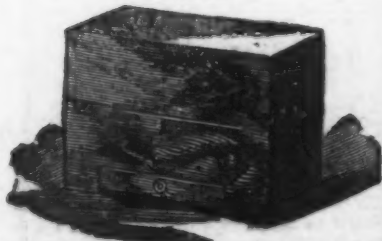
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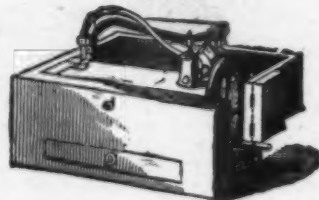
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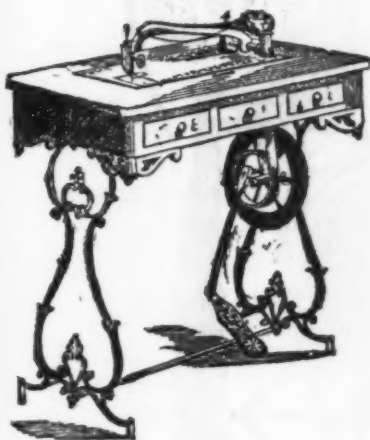
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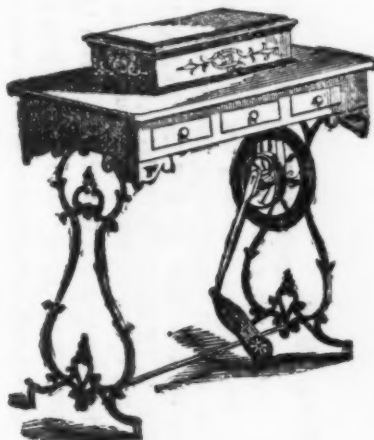
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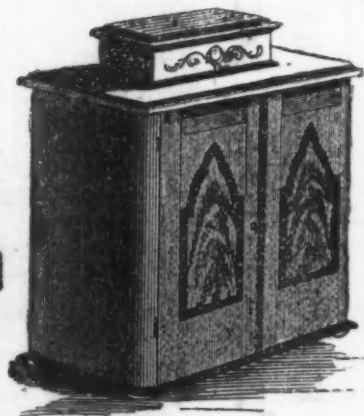
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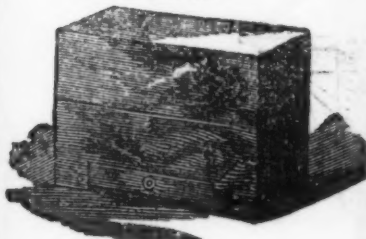
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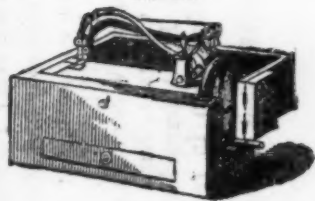
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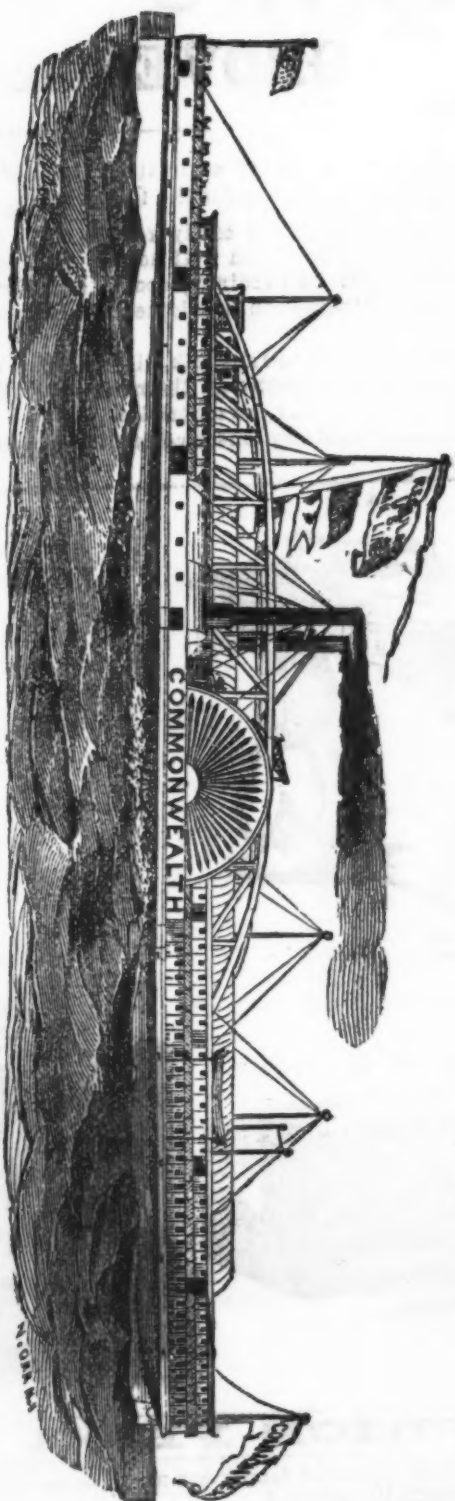
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Are offering a new Stock of Goods in their line, at very low prices. **PLOWS**, of upward of one hundred different varieties, adapted to all soils. **HARROWS**—Gelders, Scotch, Square, and Triangular. **CULTIVATORS**, for one or two horses, Steel and Iron Teeth. **FIELD-ROLLERS**—a most useful article for preparing meadows for the Mowing Machine. **HORSE HOES** and other Implements for cultivating Root Crops. **SEED PLANTERS**, of several improved patterns. **CHURNS**—the best styles in use, and an endless variety of Implements for Farmers and Gardeners' use. **FERTILIZERS, FIELD and GARDEN-SEEDS.**

Call and examine their assortment and prices. A liberal discount to Dealers.

The American Fertilizing Company,

Having purchased of Professor Charles Stearns, a patent granted by the United States Patent Office, on the 3d of March, 1857, are now prepared to furnish to Agriculturists their highly **CONCENTRATED, NITROGENIZED, and AMMONIATED GREEN SAND MARL FERTILIZERS**, being the cheapest and most enduring Fertilizer, and the only Fertiliser containing all the alkaline salts and soluble silicates so essential in the estimate of De Berg, and his compeers in chemistry, as a perfect Fertilizer.

The Company are largely interested in Guano Island, and can at all times furnish their customers of their own Columbian, Peruvian, and Mexican Guano, at their cash value, and at the lowest market prices.

SUPER-PHOSPHATE of LIME, of their own manufacture, from unburned bones, manufactured by a chemist from London, who has spent his life in acquiring a perfect knowledge of his business. For particulars, apply at the office of the Company,

april 11.]

101 NORTH MOORE STREET, New-York.

DEY STREET HOUSE,

54, 56, and 58 DEY STREET,

NEW-YORK,

KEPT ON THE EUROPEAN PLAN,

Meals at all hours of the Day.

LODGING ROOMS, FIFTY CENTS. CROTON WATER IN EVERY ROOM.

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WILLIAM M. LANGLEY, Proprietor.

H. U. BURROUGHS,

No. 48 SOUTH FOURTH ST., Philadelphia,

PROPRIETOR OF THE

PORTAGE IRON WORKS,

BLAIR COUNTY, PA. Orders received for all kinds of

LARGE BAR IRON AND NAILS,

Manufactured at the above Iron Works. Also, orders received for

SEMI-BITUMINOUS COAL,

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From the BARNET MINES, Broad Top Mountain, Pa.

ENAMELED Cottage-Furniture.

E. C. WOODBRIDGE,

(Successor to Briggs & Vickere,) Manufacturer of

ENAMELED AND GRAINED COTTAGE-FURNITURE,

WHOLESALE AND RETAIL,

No. 6 SULLIVAN STREET, near Canal, New-York.

THE Subscriber invites the attention of those about furnishing with this elegant and fashionable style of

CHAMBER-FURNITURE,

to his stock, manufactured from the best of materials, and by the most experienced and faithful workmen, under his own supervision. Prices of suits varying from \$25 to \$250, according to style and expense of finish. Every article warranted.

Hotel and Boarding-House Keepers will find this the cheapest and best place to get this style of FURNITURE, as we manufacture nothing but the Enameled.

Orders from a distance promptly attended to, and goods carefully packed.

E. C. WOODBRIDGE, 6 Sullivan Street, N. Y.

THE LITTLE AMERICAN MOWER AND REAPER.

The above machine is superior to other machines in the following points:

Lightness of draft and freedom from side-draft; ease in backing and turning corners, and its adaptation to uneven surfaces. It is both strong and light, being made of iron, and weighing only 450 lbs.

PRICES.

Mower,	\$100.00
Mower and Reaper Combined,	120.00

Sold at the

NORTH RIVER AGRICULTURAL WAREHOUSE,

GRIFFING, BROTHER & Co.,

May 8m

60 Courtlandt Street, New-York.

NEW MUSIC BY HORACE WATERS,

383 BROADWAY, NEW-YORK.

"The Garland"—six pieces—Redowa Schottisch, Polkas, and Marches; by J. H. KAPPES. "Album Leaves"—a collection of brilliant and easy pieces; by JOHAN SPINDLER. "Merry Sociable Polka;" by GEO. D. KINGSLEY. "Leaves from the Opera"—six pieces—Belisario, Lucia de Lammermoor, &c. "Aurelia Waltz;" by F. W. SMITH. "Galop from L'Etoile du Nord;" by CHARLES D'ALBERT. "Fanny in her Grave;" words by WM. M. BYARS, M.D.; music by F. W. SMITH. "Grandma's Advice"—Song; arranged by EDWARD RANSKI. "The Charter Oak"—Song and Chorus; by H. D. MUNSON. "My Mother;" words by Miss L. JOHNSON; music by S. A. EARLE.

NEW-YORK AND BALTIMORE RAILROAD.

On and after Monday, April 6, 1857, and until further notice, Passenger Trains will leave Pier foot of Duane St., as follows, viz :

DUNKIRK EXPRESS, at 6:30 A.M., for Dunkirk.

BUFFALO EXPRESS, at 6:30 A.M., for Buffalo.

MAIL, at 7:30 A.M., for Dunkirk and Buffalo and intermediate stations. Passengers by this train will remain over night at Elmira, and proceed next morning.

ROCKLAND PASSENGER, at 3 P.M., via Piermont for Suffern's and intermediate stations.

WAY PASSENGER at 4 P.M., for Newburgh, Middletown, and intermediate stations.

EMIGRANT, at 5 P.M., for Dunkirk and Buffalo and intermediate stations.

The above trains run daily, (Sundays excepted.)

NIGHT EXPRESS, at 4:30 P.M., for Dunkirk, every day, (except the train on Saturday runs to Hornellsville—thence to Buffalo.)

NIGHT EXPRESS, at 4:30 P.M., for Buffalo every day.

These Express Trains connect at Elmira with the Elmira, Canandaigua, and Niagara Falls Railroad, for Niagara Falls; at Binghamton with the Syracuse and Binghamton Railroad, for Syracuse; at Corning with Buffalo, Corning, and New-York Railroad, for Rochester; at Great Bend with Delaware, Lackawanna, and Western Railroad, for Scranton; at Hornellsville with the Buffalo and New-York City Railroad, for Buffalo; at Buffalo and Dunkirk with the Lake Shore Railroad, for Cleveland, Cincinnati, Toledo, Detroit, Chicago, &c.

HOMER RAMSDELL, President.

BALTIMORE AND OHIO RAILROAD.

PASSENGER TRAINS leave Baltimore as follows :

Accommodation, stopping over night at Cumberland, at 6:45 A. M.

Mail, for Wheeling, 8:30 A. M.

Accommodation for Fredricksburg, 4 P. M.

Express for Wheeling, 7 P. M.

TRAINS FOR BALTIMORE leave as follows :

Mail leaves Wheeling at 7:15 A. M.

Express leaves Wheeling at 4:40 P. M.

Accommodation leaves Cumberland for Baltimore, at 8:20 A. M.

Accommodation leaves Frederick for Baltimore, at 9:15 A. M.

WASHINGTON BRANCH.

PASSENGER TRAINS leave Camden Station for Washington, 4:15 and 9:15 A. M.; 3, and 5:15 P. M.

Leave Washington for Baltimore, at 6 and 8:30 A. M., and 3 and 4:30 P. M.

Tonnage Trains

Leave Baltimore, (Mount Clare Junction) at 4:30 A. M., and Washington at 11:10 A. M.

PHILADELPHIA AND BALTIMORE LINES.

PHILADELPHIA, WILMINGTON AND BALTIMORE RAILROAD. On and after MONDAY, December 1st, 1856, PASSENGER TRAINS LEAVE PHILADELPHIA FOR

Baltimore at 8 A. M., 1 P. M. (Express), and 11 P. M.

Wilmington at 8 A. M., 1, 3:30, and 11 P. M.

New-Castle at 8 A. M., and 1 and 3:30 P. M.

Middletown at 8 A. M., and 3:30 P. M.

Dover at 8 A. M., and 3:30 P. M.

Seaford at 8 A. M., and 3:30 P. M.

TRAINS FOR PHILADELPHIA LEAVE

Baltimore at 8:40 (Express), 11 A. M., and 6:45 P. M.

Wilmington at 8 and 11:45 A. M., 2:30 and 10:10 P. M.

New-Castle at 7:30 and 11:05 A. M., and 9:20 P. M.

Middletown at 10:05 A. M., and 8:19 P. M.

Dover at 8:50 A. M., and 6:55 P. M.

Seaford at 6:45 A. M., and 4:10 P. M.

TRAINS FOR BALTIMORE LEAVE

Wilmington at 9:15 A. M., 2 P. M., and 12:17 A. M.

BALTIMORE and HAVRE-DE-GRACE ACCOMMODATION TRAIN LEAVES

Havre-de-Grace at 7:45 P. M.

Baltimore at 3:34 P. M.

FREIGHT TRAINS, WITH PASSENGER CAR ATTACHED, LEAVE

Philadelphia for Perryville and intermediate places at 6:00 P. M.

Wilmington for Perryville and intermediate places at 8:10 P. M.

S. M. FELTON, President.

THE REGULAR MAIL LINE,

Via STONINGTON, for BOSTON and PROVIDENCE—inland route—the shortest and most direct—carrying the Eastern mail.

The steamers PLYMOUTH ROCK, Capt. Joel Stone, and C. VANDERBILT, Capt. W. H. Frazer, in connection with the Stonington and Providence and Boston and Providence Railroads, leaving New-York daily, Sundays excepted, from Pier No. 2 North River, first wharf above Battery Place, at 6 o'clock P. M., and Stonington, at 8:30 P. M., or on the arrival of the mail train which leaves Boston at 5:30 P. M.

The C. VANDERBILT from New-York, Monday, Wednesday, and Friday. From Stonington, Tuesday, Thursday, and Saturday.

The PLYMOUTH ROCK, from New-York, Tuesday, Thursday, and Saturday. From Stonington, Monday, Wednesday, and Friday.

Passengers proceed from Stonington per Railroad to Providence and Boston, in the Express Mail Train, reaching said place in advance of those by other routes, and in ample time for all the early morning lines connecting North and East. Passengers that prefer it remain on board the steamer, enjoy a night's rest undisturbed, breakfast if desired, and leave Stonington in the 7:15 A. M. train, connecting at Providence with the 11 A. M. train for Boston.

A Baggage-master accompanies the steamer and train through, each way.

For passage, berths, state-rooms or freight, apply on board the steamer, or at the Freight Office, Pier No. 2, North River, or at the Office, No. 10 Battery Place.

FOR BOSTON AND PROVIDENCE,

Via NEWPORT and FALL RIVER—The splendid and superior steamer EMPIRE STATE, Capt. Brayton, leaves New-York every TUESDAY, THURSDAY, and SATURDAY, at 5 o'clock P. M.; and the BAY STATE, Capt. Jewett, leaves New-York every MONDAY, WEDNESDAY, and FRIDAY, at 4 o'clock P. M.: from Pier No. 3, N. R., near the Battery—both touching at Newport each way.

Hereafter, no rooms will be regarded as secured to any applicant until the same shall have been paid for. Freight to Boston is forwarded through with great dispatch by an Express Freight Train.

WM. BORDEN, Agent, Nos. 70 and 71 West Street.

MERCHANTS' LINE OF STEAMBOATS FOR ALBANY,

DAILY, at 6 o'clock P.M., (Sundays excepted,) from the foot of Robinson Street, in connection with the New-York Central Railroad. Passage, \$

The Steamer KNICKERBOCKER, Capt. Wm. B. Nelson, Monday, Wednesday, and Friday.

The Steamer HENDRICK HUDSON, Capt. Curtis Peck, Tuesday, Thursday, and Saturday.

Tickets can be had at the office on the Wharf for all the Stations on the New-York Central Railroad, and the principal Cities in the Western States and Canada.

Baggage checked to all points on the New-York Central Railroad, free of charge.

Freight carried at reduced rates, and forwarded promptly.

ELI HUNT, Agent, Office on the Wharf.

GREAT ORIGINAL AMERICAN WORKS ON THE HORSE.

DADD'S ANATOMY AND PHYSIOLOGY OF THE HORSE, and DICTIONARY OF VETERINARY SCIENCE. Splendidly Illustrated (plain,) \$2; do. (colored plates,) \$4.00.

DADD'S MODERN HORSE-DOCTOR—Containing practical directions for the Treatment of Diseases and Lameness in Horses. With Illustrations. Price, \$1.00. *The twelfth thousand.*

LINSLEY'S MORGAN HORSES.—"As interesting as a romance" Giving the History of the Morgan Horse, Pedigrees of the Principal Horses of this Breed, and general instructions for purchasing, breeding, and training Horses. Price, \$1.00. *The Fifth Thousand now ready.* Sent free of postage upon receipt of price.

C. M. SAXTON & CO.,

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STRAWBERRIES.

PARDEE'S MANUAL FOR THE CULTURE OF THE STRAWBERRY, will ensure success, and recommend the best varieties for the different soils and locations. Price, 60 cents. Sent by mail, postage free, on receipt of price.

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GRAPES.

Now is the Season for Planting.

CHORLTON'S

COMPLETE GRAPE-GROWER'S GUIDE. 60 cents. REMELIN'S VINE-DRESSER'S MANUAL. 50 cents. ALLEN ON THE GRAPE. \$1.00.

Are works which should be in the hands of every one who has a vine to plant or prune. The increased produce of a single year will pay for them. Sent free of postage on receipt of price.

C. M. SAXTON & CO.,

Agricultural Book Publishers,

1t 140 Fulton Street, New-York.

TO LOVERS OF FLOWERS.

BUIST'S

FLOWER-GARDEN DIRECTORY. Price, \$1.25. BRECK'S BOOK OF FLOWERS. Price, \$1.00.

Will give you the directions you need for selecting the rarest and best flowers, and for their successful cultivation. These are the best books for amateurs. Sent free of postage on receipt of price.

C. M. SAXTON & CO.,

Agricultural Book Publishers,

1t 140 Fulton Street, New-York.

GANSE'S PATENT HAND-CULTIVATOR,

For tending Onions, Carrots, &c., as soon as the rows can be seen. No other tool can compare with it. (See certificates in the *Plough, Loom, and Anvil* of April.) Retail price, \$6.00.

For sale by

JOHN GANSE, MANUFACTURER, 134 Thompson Street.

R. L. ALLEN, 189 Water Street.

H. F. DIBBLEE, 100 Murray Street.

May 1t

GRIFFING, BROTHER & Co., 60 Courtlandt Street.

MANHATTAN LIFE INSURANCE COMPANY

31 NASSAU STREET, NEW-YORK.

CASH CAPITAL AND ACCUMULATION, \$350,000.

ONE HUNDRED THOUSAND DOLLARS deposited with the Comptroller of the State for the security of all policy holders. Persons insuring with this Company, will be entitled to their pro rata share of the dividends. The rates and principles adopted have stood the test of experience, and must secure, beyond contingency, the object for which Life Insurance is effected—immediate and permanent aid to the WIDOW AND ORPHAN.

C. Y. WEMPLE, *Secretary.*

N. D. MORGAN, *President.*

ABRAM DU BOIS, M.D., *Medical Examiner*, attends at the office daily, from 2 to 3 o'clock P. M. Prospectuses to be had at the office, gratis



LYON'S KATHAIRON

Has now become the standard preparation for the HAIR. Its immense sale, nearly ONE MILLION BOTTLES per year, attests its excellence and great superiority over all other articles of the kind. The ladies universally pronounce the Kathairon to be, by far, the finest and most agreeable article they ever used. It RESTORES the Hair after it has fallen out; INVIGORATES and BEAUTIFIES it, giving to it a rich, glossy appearance, and imparts a *delightful perfume*. Sold by all dealers throughout the United States, Canada, Mexico, Cuba, and South America, at 25 Cents per bottle.

HEATH, WYNKOOP & Co., Proprietors,

63 Liberty Street, New-York.

Manufacturers, also, of Perfumery of all kinds, and in great variety.



SALAMANDER SAFE.

TILTON & MCFARLAND,

172 Broadway, cor. Maiden Lane, New-York,

OFFER THEIR

FIRE AND BURGLAR PROOF SAFES

To the public, as superior to any manufactured in the world, either for FIRE OR BURGLAR PROOF qualities; and are warranted entirely FREE FROM DAMPNES, which is not the case with many others manufactured here. Of the thousands sold by us, not one of the many that have been tested in actual fires of the most intense heat, have the

BOOKS OR PAPERS SUFFERED THE LEAST !

Nor have Burglars, after repeated attempts, ever been able to pick our POWER AND BURGLAR PROOF LOCKS. These Safes have the precedence in the Government Offices at Washington, and are introduced in preference to others in the Patent Office, for the safe deposit of Government Jewels.

Purchasers are invited to call, examine, and compare prices and qualities with other manufacturers.

172 BROADWAY, New-York.

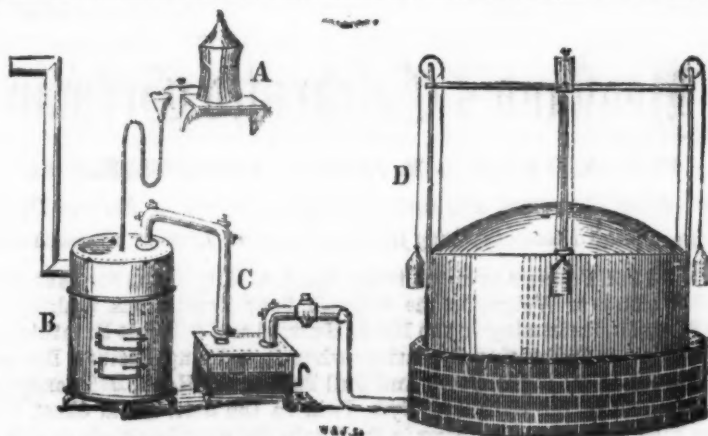
14 HOWARD ST., Boston, Mass.

18 EXCHANGE ST., Portland, Me.

145 PLATT ST., Baltimore, Md.

69 MARKET ST., Nashville, Tenn.

90 BATTERY ST., San Francisco, Cal.



A, Tin Can, containing Rosin-Oil. B, Gas-Generator. C, Retort-Box. D, Gasometer.

GAS APPARATUS,

After the Patent of the Maryland Portable Gas Company.

C. R. WOODWORTH & CO. are now offering for sale a most complete, cheap, simple, and efficient Gas Machine, adapted, in all respects, to the wants of Private Dwellings, Public and Private Schools, Churches, Colleges, Factories, Hotels, Watering-Places, &c., as well as of Towns and Villages. Prices for an ordinary dwelling from \$350 upwards. Details will be furnished by applying to

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C. WOODWORTH & CO., No. 74 Wall Street, N. Y.

TO FARMERS AND GARDENERS.

The subscribers offer for sale 40,000 barrels of

New and Improved Poudrette,

MANUFACTURED FROM THE NIGHT-SOIL OF NEW-YORK CITY, IN LOTS TO
SUIT PURCHASERS.

This article (greatly improved within the last two years) has been in the market for eighteen years, and still defies competition, as a manure for Corn and Garden Vegetables, being *cheaper, more powerful than any other*, and, at the same time, *free from disagreeable odor*. Two barrels (\$3 worth) will manure an acre of corn in the hill, will save two-thirds in labor, will cause it to come up quicker, to grow faster, ripen earlier, and will bring a larger crop on poor ground than any other fertilizer, and is also a preventive of the cut-worm; also, it does not injure the seed to be put in contact with it.

The L. M. Co. point to their long-standing reputation, and the large capital (\$100,000) invested in their business, as a guarantee that the article they make shall always be of such quality as to command a ready sale.

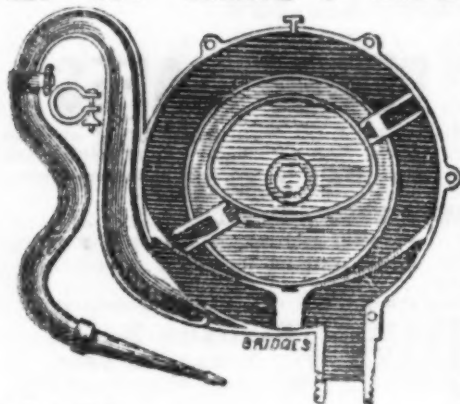
Price, delivered in the city free of charge and other expense: One barrel, \$2; Two barrels, \$3.50; Five barrels, \$8; Six barrels, \$9.50; and at the rate of \$1.50 per barrel for any quantity over six barrels.

A Pamphlet, containing every information, will be sent (FREE) to any one applying for the same. Our address is,

THE LODI MANUFACTURING CO.,

OFFICE, 60 CORTLANDT STREET, NEW-YORK.

A. W. CARY'S ROTARY FIRE-ENGINE PUMPS.



Sept. 18-1y.

The Inventor, after thoroughly testing this engine pump, for the past two years, feels confident that it is not equalled by any thing now in market, in the way of raising or forcing water; the motion being rotary, the stream is constant, without the aid of an air vessel. The packing is self-adjusting, very durable, and can not well get out of order.

These pumps are well calculated for all the purposes for which pumps or hydrants may be used, viz., Factories, Steamboats, Tanneries, Breweries, Distilleries, Railroads, Water Stations, Hotels, Mines, Garden Engines, &c.

Among the many testimonials given of this pump, is a gold medal awarded at the last great Fair of the American Institute.

No. 1 is a house or well pump and domestic Fire Engine, and will raise from 20 to 30 gallons per minute.

No. 2 will raise 100 gallons at 120 revolutions.

No. 2½ " 200 " 120 "

No. 3 " 300 " 120 "

The quantity raised can be doubled, by doubling the revolutions. These machines are manufactured and sold by the subscribers at Brockport, N. Y.; also in this city, 240 Broadway.

CARY & BRAINERD.

Doctor Hoofland's Celebrated German Bitters,

PREPARED BY Dr. C. M. JACKSON, PHILADELPHIA, Pa.,

Will effectually cure Liver Complaint, Dyspepsia, Jaundice, Chronic or Nervous Debility, Diseases of the Kidneys, and all Diseases arising from a disordered Liver or Stomach—such as

Constipation, Inward Piles, Fullness or Blood to the Head, Acidity of the Stomach, Nausea, Heartburn, Disgust for Food, Fullness or Weight in the Stomach, Sour Eructations, Sinking or Fluttering at the Pit of the Stomach, Swimming of the Head, Hurried and Difficult Breathing, Fluttering at the Heart, Choking or Suffocating Sensations when in a Lying Posture, Dimness of Vision, Dots of Webs before the Sight, Fever and Dull Pain in the Head, Deficiency of Perspiration, Yellowness of the Skin and Eyes, Pain in the Side, Back, Chest, Limbs, &c., Sudden Flushes of Heat, Burning in the Flesh, Constant Imaginings of Evil, and great Depression of Spirits.

The proprietor, in calling the attention of the public to this preparation, does so with a feeling of the utmost confidence in its virtues and adaptation to the diseases for which it is recommended.

It is no new and untried article, but one that has stood the test of a ten years' trial before the people; and its reputation and sale are unrivaled by any similar preparations extant. The testimony in its favor, given by the most prominent and well-known Physicians and Individuals in the country, is immense, and a careful perusal of the Almanac published annually by the proprietor, and to be had gratis of any of his agents, can not but satisfy the most skeptical that this remedy is really deserving the great celebrity it has obtained.

Principal Office and Manufactory, No. 96 ARCH STREET, Philadelphia, Pa. Sold by Druggists and Storekeepers in every town and village in the United States and Canada, at 75 cents per bottle. [Oct 56]y.

GREAT AND UNUSUAL INDUCEMENTS.

25 PER CENT. DISCOUNT

In first-class engravings will be made, until further notice, on all *cash purchases of LOOKING-GLASSES, PICTURE-FRAMES, ENGRAVINGS, ARTISTS' MATERIALS, &c., &c.*, which will be sold, *independently of the deduction*, at the LOWEST MARKET PRICES, and the privilege of selecting said deduction from an immense stock and great variety of Fine Engravings, given to each purchaser.

In our LOOKING-GLASS DEPARTMENT may be had every variety of *Pier, Wall, and Mantel Mirrors, Portrait and Picture Frames, Cornices, Bases, &c.*, of our own exclusive manufacture, from choice and original designs, not elsewhere to be obtained, and of superior quality and style.

In our FINE ART DEPARTMENT will be found first-class impressions of all the finest European Engravings, together with a general assortment of all desirable publications. Proofs, in the earliest states, of all important engravings, exhibited in advance of publication abroad, from which the trade and others can give their orders for early impressions.

In our ARTISTS' MATERIAL DEPARTMENT will be found (of superior quality, only) every requisite for the Artist, Amateur, or Pupil.

The usual discount to the Trade and Schools. Orders by letter carefully filled and packed with the utmost care. To the economist, and all desirous of obtaining superior quality articles, at moderate prices, the above presents unusual advantages.

WILLIAMS, STEVENS, WILLIAMS & CO.,

353 Broadway, N. Y.

THE GEM OF THE MONTHLIES—FOR LADIES & GENTLEMEN.



CONTAINS SPLENDID STEEL ENGRAVINGS—BEAUTIFUL COLORED STEEL FASHIONS—FINE WOOD ILLUSTRATIONS—HANDSOME PATTERNS FOR ALL KINDS OF NEEDLEWORK. THE BEST & MOST POPULAR WRITERS ARE ITS CONTRIBUTORS.
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 Terms, \$3 a year. Three Copies, \$1. Single Copies, 25 cents.

GREEN SAND MARL, OF NEW-JERSEY.

THE NEW-JERSEY FERTILIZER COMPANY is now prepared to receive orders for this important Manure. For all lands upon which ashes are beneficial, the Marl is more than a substitute. Prof. COOK, in his Annual Report to the Legislature, says: "The value of these Marls is best seen in the rich and highly cultivated district which has been improved, *almost made*, by their use; but it may be interesting to examine the causes of their great value in Agriculture, and to compare them with other Fertilizers."

"For example: the potash alone may be taken at an average as five per cent. of the whole weight of the Marl—a bushel, when dry, weighs eighty pounds, and in the proportion mentioned would contain four pounds of potash; this is nearly as much as there is in a bushel of *unleached Wood Ashes*," &c. Again: "It is probable that the great value of the Marl is to be found in the fact, *that it contains nearly all the substances necessary to make up the Ash of our common cultivated plants.*"

Price, delivered on board vessel, at the wharves of the Company, at Portland Heights, N. J., SEVEN CENTS PER BUSHEL.

For further particulars, see Circular, sent free of postage. Orders for other Fertilizers will receive prompt attention. Address either of the undersigned.

CHAS. SEARS, Prest., Riceville, New-Jersey.

TAPPEN TOWNSEND, Treas., No. 82 Nassau St., New-York.

GEO. W. ATWOOD, Sec'y, 16 Cedar St., New-York.

ALFRED MUNROE & CO.,

441 BROADWAY, between Howard and Grand Sts., N. Y.,

Fine Clothing & Furnishing Goods, FOR MEN AND BOYS.

MEN'S DEPARTMENT.—Spring Raglan Overcoats, in great variety; Black Frock Coats, Business Coats, Black Pants, Fancy Cassimere Pants, Vests; Furnishing Goods—Shirts, Collars, Cravats, Ties, Scarfs, Gloves, Suspenders, Mufflers, Drawers, Undershirts, Hosiery, etc., etc.

BOYS' DEPARTMENT.—Youth's Spring Raglans, Youth's Frock Coats, Business Coats, Jackets, Pants and Vests, Boys' Fancy Jackets, Blouses, Breeches, Linen Waists, Shirts, Collars, Ties, Gloves, Suspenders, Handkerchiefs, etc., etc.

NO DEVIATION FROM MARKED PRICES CAN IN ANY INSTANCE BE MADE.

A good assortment of **PIECE-GOODS** always on hand, which will be made to order in the best manner.

ALFRED MUNROE & CO. call attention to the fact that their goods are well and appropriately trimmed, and that they guarantee them to be well made.

If any dissatisfaction exists after the purchase of an article of A. M. A Co., it may be returned and exchanged, or the money will be refunded.

ALFRED MUNROE.

WM. D. ABBATT.

M. G. RATHBUN.

SUPER PHOSPHATE OF LIME MANURE.

C. B. DE BURG

Has the pleasure of announcing to his former patrons and other farmers who may wish to improve their Soils, that he has during the past year succeeded in manufacturing from the Gas Works around the city, a superior quality of Sulphate of "Ammonia," in large quantities, and he is now prepared to furnish

C. B. De Burg's Super Phosphate of Lime,

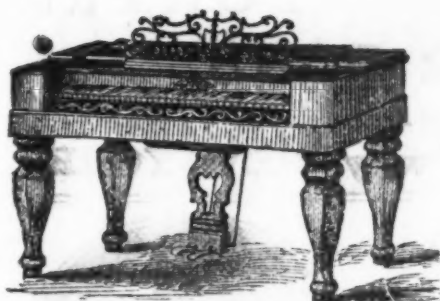
highly charged with "Ammonia," which, from experiments made by scrupulous experimentors, is now acknowledged to be the most valuable element in all kinds of Organic and Artificial Fertilizers. Public State Agricultural Societies, and distinguished Farmers tried many experiments the past season with his preparation side by side of Peruvian Guano and other concentrated Manures, with universal success—detailed accounts of these will shortly be placed before the public for examination. The proprietor is working for future and lasting reputation, and begs to assure his friends that he will spare no pains or efforts to make every package of "Super Phosphate" bearing his name, just what it purports to be.

To avoid imposition or deception being practised, henceforth all packages will be distinctly marked, "C. B. De Burg's No. 1, Super Phosphate of Lime."

Pamphlets, with instructions for use, etc., will be forwarded on application to

C. B. DE BURG, SOLE PROPRIETOR,

WILLIAMSBURGH, LONG ISLAND, NEW-YORK.



CHARLES AUSTIN, MANUFACTURER OF IMPROVED MELODEONS, AND ORGAN HARMONIUMS,

OPPOSITE THE DEPOT, CONCORD, N. H.

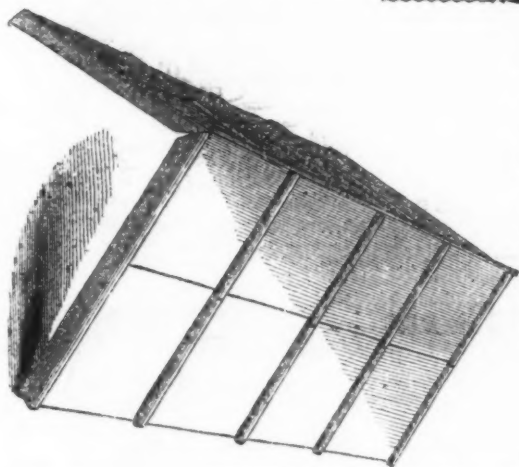
Ware-rooms, 324 Washington St., Boston.

CHARLES AUSTIN is the oldest manufacturer of Melodeons in the United States, having commenced the business at Concord, N. H., in 1835. He has made over 4,000 instruments, all of which have proved entirely satisfactory. Recently, he erected a very large factory, with steam-power attached, and has invented a number of machines which do the work more perfect than it can possibly be done by hand, and in many parts of the instrument saves one-third of the labor usually required; consequently, he believes he is now prepared to sell better Instruments, and at lower prices, than can be bought in this country. He also manufactures Organ Harmoniums for churches, with Pedal Bass, with from two to six Stop Reeds.

● All instruments warranted to give satisfaction, or the money will be refunded. Price List, with full descriptions, furnished when desired. The Reeds used in the celebrated Æolian Attachment to the Pianos of Messrs. T. GILBERT & Co., are manufactured by him.

Melodeon manufacturers supplied to order with Reeds of every description.

NEW SHEET METAL ROOFING.



THE Subscriber, having obtained Letters Patent for the above roofing, is ready to make sale of the same, by territories or otherwise, on liberal terms. It can be fitted in one-sixth the time required by any other roofing. The joints run from ridge to eaves, and may be continued, on circular roofs, from eave to eave. The cross seams expand and contract without affecting the joint, or drawing nails. Most of the work can be done in the shop, at a great saving of time and labor. MACHINES for forming the roof, will also be sold.

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Black Cloth Dress Frock Coats,.....	5.00 " 15.00.
Handsome Black Pants,.....	2.00 " 5.00.
Thin Summer Coats,.....	1.00 " 3.00.
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Complete Suits,.....	2.50 " 23.00.

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CHINESE SUGAR-CANE, AND SUGAR-MAKING: Its History,

Culture, and Adaptation to the Soil, Climate, and Economy of the United States, with an account of various processes of manufacturing Sugar, drawn from authentic sources. By CHARLES F. STANSBURY, A. M., Late Commissioner at the Exhibition of the Industry of all Nations, at London. Price, 25 cents. Published by C. M. SAXTON & CO., 140 Fulton Street, New-York.

N. B.—To persons enclosing 25 cents, and a three-cent P. O. Stamp, to us, we will send the above book, and SEED ENOUGH TO PLANT TWO RODS SQUARE.

11Feb.

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Two First Prize Medals,

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March, 1855.



FIRST PRIZE GOLD MEDAL

AMERICAN INSTITUTE,
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NEW-YORK.

NOVEMBER, 1855.



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Among the judges were the first musical talent of the country, such as M. Mason, Gottschalk, Wollenhaupt, and many others. Steinway & Sons' Pianos (with and without the Iron Frames) are warranted for three years, and a written guarantee given. Pianos packed and shipped without charge. Prices moderate.

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THE CASES are made for solidity and strength, combined with beauty of outline, (and to take up the least possible amount of room,) and, together with

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KEEPING IN TUNE AND ORDER

For a great length of time. They have been awarded at different State-Institutes, and other Fairs, **FIFTEEN FIRST PREMIUMS GOLD & SILVER MEDALS, DIPLOMAS, &c.**

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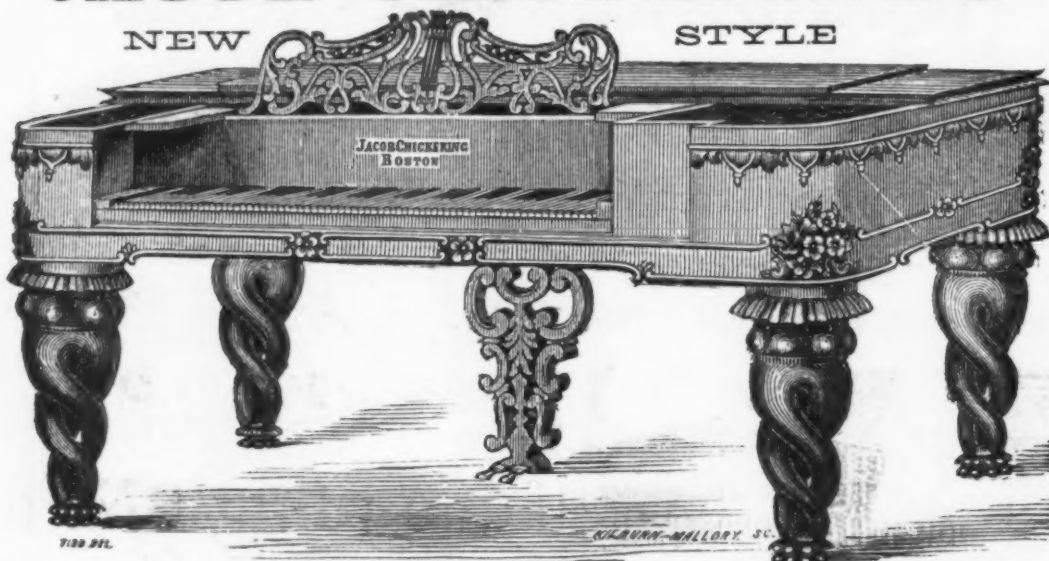
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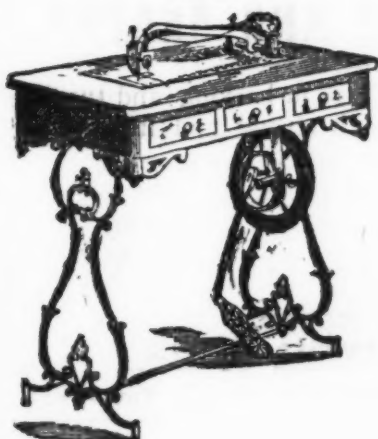
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FAMILY SEWING MACHINES, GROVER & BAKER'S.

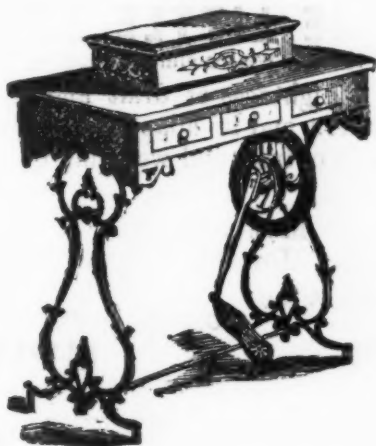
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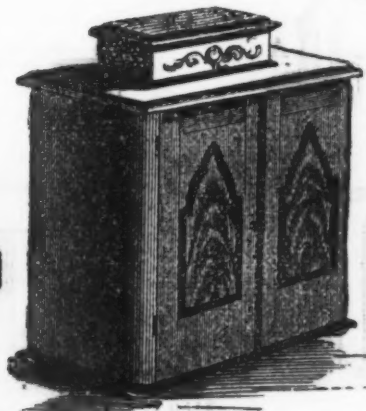
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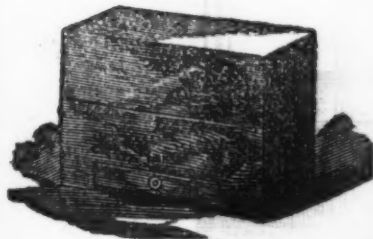
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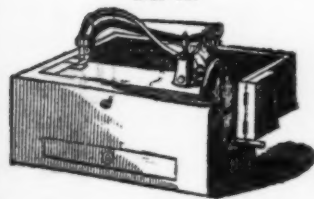
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PRICES.

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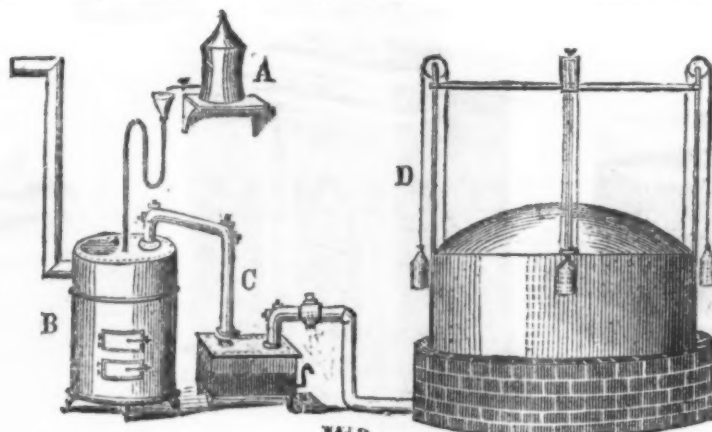
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This is a beautiful volume, filled with interesting reading, prepared with the skill and labor of its well-known author; and in view of the amount of matter it contains, is considered a *cheap* book, at the price finally fixed, ninety cents, instead of one dollar, as before announced.

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The subscribers offer for sale 40,000 barrels of their

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MANUFACTURED FROM THE NIGHT-SOIL OF NEW-YORK CITY, IN LOTS TO
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This article (greatly improved within the last two years) has been in the market for eighteen years, and still defies competition, as a manure for Corn and Garden Vegetables, being cheaper, more powerful than any other, and, at the same time, free from disagreeable odor. Two barrels (\$3 worth) will manure an acre of corn in the hill, will save two-thirds in labor, will cause it to come up quicker, to grow faster, ripen earlier, and will bring a larger crop on poor ground than any other fertilizer, and is also a preventive of the cut-worm; also, it does not injure the seed to be put in contact with it.

The L. M. Co. point to their long-standing reputation, and the large capital (\$100,000) invested in their business, as a guarantee that the article they make shall always be of such quality as to command a ready sale.

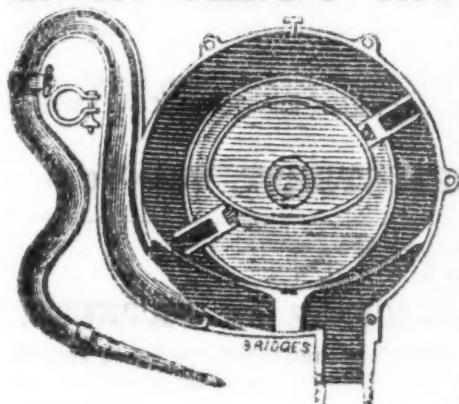
Price, delivered in the city free of charge and other expense: One barrel, \$2; Two barrels, \$3.50; Five barrels, \$8; Six barrels, \$9.50; and at the rate of \$1.50 per barrel for any quantity over six barrels.

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These pumps are well calculated for all the purposes for which pumps or hydrants may be used, viz., Factories, Steamboats, Tanneries, Breweries, Distilleries, Railroads, Water Stations, Hotels, Mines, Garden Engines, &c.

Among the many testimonials given of this pump, is a gold medal awarded at the last great Fair of the American Institute.

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No. 2 will raise 100 gallons at 120 revolutions.

No. 2 1/2 " 200 " 120 "

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Doctor Hoodland's Celebrated German Bitters,

PREPARED BY Dr. C. M. JACKSON, PHILADELPHIA, Pa.,

Will effectually cure Liver Complaint, Dyspepsia, Jaundice, Chronic or Nervous Debility, Diseases of the Kidneys, and all Diseases arising from a disordered Liver or Stomach—such as

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The proprietor, in calling the attention of the public to this preparation, does so with a feeling of the utmost confidence in its virtues and adaptation to the diseases for which it is recommended.

It is no new and untried article, but one that has stood the test of a ten years' trial before the people; and its reputation and sale are unrivaled by any similar preparations extant. The testimony in its favor, given by the most prominent and well-known Physicians and Individuals in the country, is immense, and a careful perusal of the Almanac published annually by the proprietor, and to be had gratis of any of his agents, can not but satisfy the most skeptical that this remedy is really deserving the great celebrity it has obtained.

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TREDWELL & JONES

Are offering a new Stock of Goods in their line, at very low prices. PLOWS, of upward of one hundred different varieties, adapted to all soils. HARROWS—Geldes, Scotch, Square, and Triangular. CULTIVATORS, for one or two horses, Steel and Iron Teeth. FIELD-ROLLERS—a most useful article for preparing meadows for the Mowing Machine. HORSE HOES and other Implements for cultivating Root Crops. SEED PLANTERS, of several improved patterns. CHURNS—the best styles in use, and an endless variety of Implements for Farmers and Gardeners' use. FERTILIZERS, FIELD and GARDEN-SEEDS.

Call and examine their assortment and prices. A liberal discount to Dealers.

The American Fertilizing Company,

Having purchased of Professor Charles Stearns, a patent granted by the United States Patent Office, on the 3d of March, 1857, are now prepared to furnish to Agriculturists their highly CONCENTRATED, NITROGENIZED, and AMMONIATED GREEN SAND MARL FERTILIZERS, being the cheapest and most enduring Fertilizer, and the only Fertiliser containing all the alkaline salts and soluble silicates so essential in the estimate of De Berg, and his compeers in chemistry, as a perfect Fertilizer.

The Company are largely interested in Guano Island, and can at all times furnish their customers of their own Columbian, Peruvian, and Mexican Guano, at their cash value, and at the lowest market prices.

SUPER-PHOSPHATE of LIME, of their own manufacture, from unburned bones, manufactured by a chemist from London, who has spent his life in acquiring a perfect knowledge of his business. For particulars, apply at the office of the Company,

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PORTAGE IRON WORKS,

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LARGE BAR IRON AND NAILS,

Manufactured at the above Iron Works. Also, orders received for

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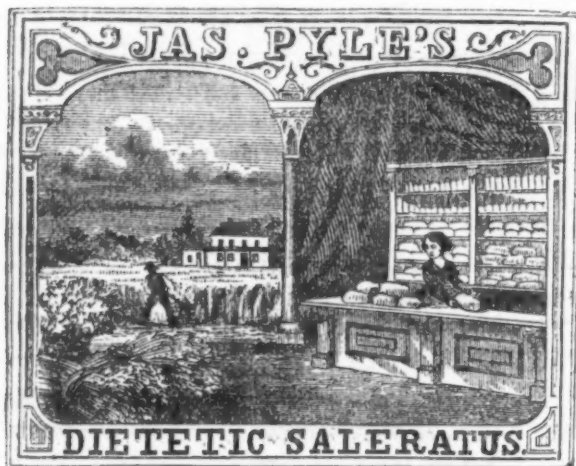
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VOL. IX.

THE PLOUGH

THE LOOM AND THE ANVIL.

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AND MECHANICS' GUIDE.

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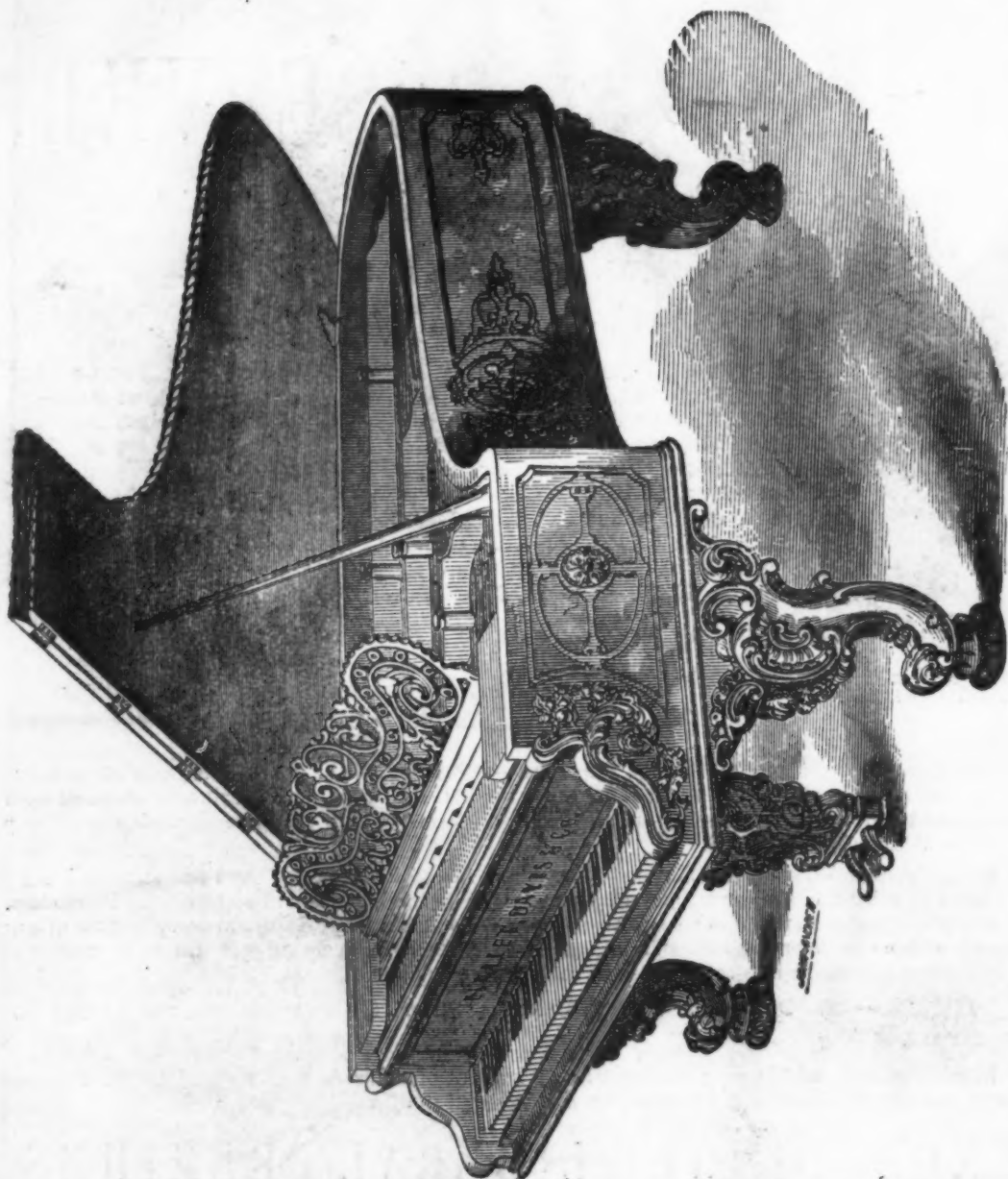
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